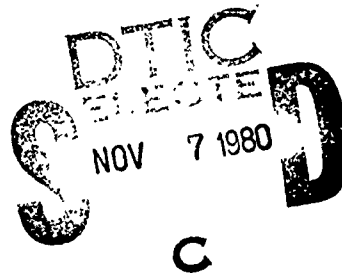


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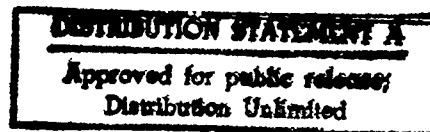


Performance and Loads Data From a Wind Tunnel Test of a Full-Scale Rotor With Four Blade Tip Planforms

Wayne Johnson

September 1980

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NOMENCLATURE

c	blade chord
C_L/σ	rotor lift coefficient, $L/\rho S(\Omega R)^2$
C_{M_x}/σ	rotor roll moment coefficient, $\mathcal{L}/\rho S(\Omega R)^2 R$
C_{M_y}/σ	rotor pitch moment coefficient, $M/\rho S(\Omega R)^2 R$
C_{M_z}/σ	rotor yaw moment coefficient, $N/\rho S(\Omega R)^2 R$
C_P/σ	rotor power coefficient, $P/\rho S(\Omega R)^3$
C_{P_0}/σ	rotor nonideal power coefficient
c_s	speed of sound
C_X/σ	rotor propulsive force coefficient, $-D/\rho S(\Omega R)^2$
C_Y/σ	rotor side force coefficient, $Y/\rho S(\Omega R)^2$
D	rotor drag force, wind axes, positive rearward
L	rotor lift force, wind axes, positive upward
\mathcal{L}	rotor roll moment about hub center, wind axes
M	rotor pitch moment about hub center, wind axes
M_{at}	advancing tip Mach number, $(\Omega R + V)/c_s$
M_{tip}	tip Mach number, $\Omega R/c_s$
N	rotor yaw moment about hub center, wind axes
P	rotor power, $Q\Omega$
q	free stream dynamic pressure, $\frac{1}{2}\rho V^2$
Q	rotor shaft torque
r	blade radial station, measured from center of rotation
R	rotor radius
S	rotor reference area, number of blades times rotor radius times nominal chord; same number used for all tip planforms
V	wind tunnel air speed
Y	rotor side force, wind axes, positive to starboard

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α	shaft angle of attack, positive aft
$\theta_{.75}$	blade collective pitch angle at .75R
ρ	air density
σ	solidity, $S/\pi R^2$
Ω	rotor rotational speed

(See also Table 14)

PERFORMANCE AND LOADS DATA FROM A WIND TUNNEL TEST
OF A FULL-SCALE ROTOR WITH FOUR BLADE TIP PLANFORMS

Wayne Johnson

Ames Research Center

and

Aeromechanics Laboratory

AVRADCOM Research and Technology Laboratories

SUMMARY

A full-scale helicopter rotor was tested in the Ames 40- by 80-Foot Wind Tunnel to measure the performance, loads, and noise characteristics of rotors with various tip geometries. Four blade tip planforms were investigated: rectangular, tapered, swept, and swept/tapered. This report presents in tables and plots the performance and loads data obtained from that test.

INTRODUCTION

A full-scale helicopter rotor was tested in the Ames 40- by 80-Foot Wind Tunnel to measure the performance, loads, and noise characteristics of rotors with various tip geometries. Four blade tip planforms were investigated: swept/tapered, swept, tapered, and rectangular. This report presents the performance and loads data obtained from that test. The rotor, instrumentation, data reduction, and test procedure are described. The data from the entire test are presented in tables and plots, without discussion. Discussions and plots of the performance characteristics are given in references 1, 2, and 3. Discussions of the loads characteristics are given in references 3 and 4. The full-scale wind tunnel results are compared with small-scale and flight test results and with theoretical calculations in references 5 and 6. The noise data are presented and discussed in references 7 and 8.

ROTOR DESCRIPTION

The rotor installed on the Rotor Test Apparatus (RTA) in the 40- by 80-Foot Wind Tunnel is shown in figures 1 and 2. The RTA was mounted on the 8-ft main struts with 5-ft tips, and the 8 balance dampers were installed. The rotor hub is shown in figures 3 and 4. The rotor was fully articulated, using elastomeric bearings. The rotor blade geometry is sketched in figure 5. The last 5% of the blade span was an interchangeable tip. The four tip planforms tested are sketched in figure 6. The major parameters describing the rotor are as follows:

radius, R	22 ft
number of blades	4
nominal twist	-10 deg
hinge offset	0.833 ft
Lock number	10.
solidity	0.07476
nominal chord	1.292 ft
reference area, S	113.67 ft ²

The rotor and hub descriptive data are presented in table 1. The spanwise distributions of the blade properties are presented in tables 2 and 3. The blade airfoil and planform description is given in table 4 (see also figures 5 and 6). The airfoil contours are presented in tables 5 and 6. The two-dimensional airfoil characteristics are given in tables 7, 8, and 9.

INSTRUMENTATION AND DATA REDUCTION

The six components of the rotor forces and moments were measured by the wind tunnel balance system and corrected for wall effects and for tares. The forces and moments are in a wind axis system, with the moments measured relative to the hub center. The wind tunnel wall correction was an incremental change in the angle-of-attack proportional to lift: $\Delta\alpha = K(L/q)$, where $K = 0.00197 \text{ deg/ft}^2$. This angle increment was added to the uncorrected, geometric rotor shaft angle α_u to obtain the corrected angle-of-attack of the rotor disk in free air: $\alpha_c = \alpha_u + \Delta\alpha$. The balance forces and moments were resolved into this new wind-axis system. This wall correction is based on conventional fixed wing techniques, for a wing of span equal to the rotor diameter. Tare corrections were experimentally determined to account for the aerodynamic forces on the exposed portions of the model support struts, on the test module, and on the rotating hub hardware inboard of 0.096R. The tares were described by polynomial equations (in α and q) that are given in table 10. These tare reactions were subtracted from the balance forces and moments to obtain the net rotor reactions. The rotor forces and moments were computed in coefficient form, based on the nominal blade area S . The same value of the reference area S was used for all four tip planforms.

The rotor power was obtained from the shaft torque times the rotor rotational speed. The mean rotor shaft torque was obtained from the dynamic data acquisition system. A nonideal power coefficient was calculated as follows:

$$C_{P_0} = C_P - \frac{C_L^2}{2(V/\Omega R)} - C_X(V/\Omega R)$$

The parameter C_{P_0} is obtained by subtracting the propulsive or parasite power and the ideal induced power from C_P ; hence it is equal to the sum of the rotor profile power and non-ideal induced power losses.

The rotor and test module instrumentation parameters considered in this report are listed in table 11, including units and positive directions. The rotor instrumentation was on the #3 blade. The actual radial locations of the blade bending gages are given in table 12 (see also figure 5). The accelerometers were attached to the framework of the test module. The signals from the parameters shown in table 11 were sampled and digitized 64 times per rotor revolution. The data were converted to engineering units using an R-cal step acquired at the beginning of the run. The time history was smoothed and filtered by eliminating subharmonics and harmonics above 10/rev; and a correction for the Bessel filters in the amplifiers was applied.

OPERATING CONDITIONS

The rotor performance and loads were measured over an advance ratio range from 0.075 to 0.400, and an advancing tip Mach number range from 0.640 to 0.965. The tunnel speed and rotor speed were adjusted to obtain the desired advance ratio $V/\Omega R$ and advancing tip Mach number M_{at} . Data were acquired for a matrix of shaft angle α and collective pitch Θ_{75} values. The rotor cyclic pitch was adjusted to produce no first harmonic flapping motion relative to the rotor shaft for most data points.

The operating conditions at which the data were acquired are shown in figure 7. Basically, an advance ratio sweep was made at $M_{tip} = 0.60$, and rotor speed sweeps were made at $V/\Omega R = 0.20, 0.25, \text{ and } 0.375$. Data were acquired at 14 conditions for the swept/tapered planform, and at

5 or 6 conditions for the other three tip planforms. The run numbers for the four tip planforms are given in table 13.

PERFORMANCE DATA

The performance data are tabulated in section A. A dictionary of the parameters is provided in table 14. The data are organized by tip planform and by operating condition ($V/\Omega R$ and M_{at}). A key to the tabulated data is given in table 15.

LOADS DATA

The loads data are tabulated in section B. The oscillatory (one-half peak-to-peak) and mean loads are presented, and the magnitude of the 4/rev acceleration. A dictionary of the parameters is provided in table 14. The data are organized by tip planform. A key to the tabulated data is given in table 16.

DETAILED LOADS DATA

Detailed loads data are given in section C. The first 10 harmonics and the time history over one revolution are presented for the blade bending moments and pitch link load. A dictionary of the parameters is provided in table 14. The test conditions for the detailed loads data are listed in table 17. Data are given in section C at 3 combinations of tunnel speed and rotor speed for each tip planform, and at 3 additional combinations for the swept/tapered planform only. Three basic trim conditions are presented: a moderate lift and moderate propulsive force case (very roughly corresponding to 1g trim flight for this rotor); a high lift case with nearly zero propulsive force ($\alpha = 0$); and a high lift case with positive propulsive force (α large and negative). In addition, at $V/\Omega R = 0.20$ and $M_{at} = 0.72$ data are given for a high lift case with negative propulsive force (autorotation; $\alpha = 10^\circ$). At $V/\Omega R = 0.30$ and $M_{at} = 0.78$, data are given for the highest power point available (high lift with positive propulsive force). A key to the tabulated data is given in table 18.

PLOTTED DATA

The performance and loads data are plotted in section D. A dictionary of the parameters is provided in table 14. Each plot presents isograms for a particular quantity as a function of lift and propulsive force, at a given operating condition ($V/\sqrt{L}R$ and M_{at}). The data points are designated by circles on the plots. The contours are interpolated from the values of the quantity at the data points. The quantities plotted are power coefficient; nonideal power coefficient; oscillatory (one-half peak-to-peak) pitch link load; oscillatory normal bending moment at $.7R$; and oscillatory edgewise bending moment at $.6R$. The parameter ϵ_v in the upper left-hand corner is the rms error of the estimate of the quantity at the data points based on the interpolated contours. The rms error of the interpolation is about 0.00001 to 0.00003 for C_p/\sqrt{v} and C_{p_0}/\sqrt{v} ; 4 to 8 lb for the pitch link load; 10 to 30 in-lb for the normal bending moment; and 50 to 150 in-lb for the edgewise bending moment. The plots are organized by tip planform and by plotted parameter. Keys to the plots are given in tables 19 to 23.

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Table 1. Rotor and hub descriptive data.

ITEM	UNITS	QUANTITY
Number of Blades		4
Rotor Solidity		0.07476
Rotor Radius	Ft	22.0
Flap and Lag Hinge Offset	Ft	.8333
Blade Pushrod Horn Length	Ft	.542
Radial Position of Blade Pushrod at Horn	Ft	1.137
Radial Position of Blade Pushrod at Swashplate	Ft	1.219
Blade Pushrod Length	Ft	1.167
Blade Lag Angle for Coplanar Blade Pushrod and Rotor Shaft	Deg	13.0
Radial Position of Stationary Pushrods	Ft	.7083
Azimuth Position of FLSS Pushrod	Deg	60.6
Azimuth Position of ALSS Pushrod	Deg	241.0
Azimuth Position of LSS Pushrod	Deg	331.0
Elastomeric Hinge Flap, Lag Stiffness	Ft-lb/rad	1192.
Estimated Average Torsional Root Stiffness	Ft-lb/rad	23,600.
Elastomeric Hinge Bearing Torsional Stiffness	Ft-lb/rad	683.
Neutral Static Collective Pitch	Deg	7.0
Typical Equivalent Viscous Lag Hinge Damping	Ft-lb-sec	2000.
Radial Station of Damper Outboard End	Ft	2.133
Distance of Damper Outboard End Aft of Feathering Axis	Ft	.417
Radial Station of Damper Inboard End	Ft	.766
Distance of Damper Inboard End of Feathering Axis	Ft	.557
Collective Pitch for Feathering and Damper Axis Coplanar with 6° Coning	Deg	-2.0

Table 1. Concluded.

ITEM	UNITS	QUANTITY
blade mass	slug	3.04
blade first moment of inertia about lag hinge	slug-ft	29.08
blade second moment of inertia about flap hinge	slug-ft ²	408.67
structural damping (estimated)	--	3%
collective pitch at .75 R for horizontal pitch horn	deg	20°
damper motion per blade lag deflection	ft/rad	0.5274
damper force in friction damping range	lb	1500.
range of damper stroke velocity for hydraulic damping (force proportional to square of velocity)	in/sec	0 to 0.75
reference area for rotor coefficients, S (all planforms)	ft ²	113.67
hub distance above wind tunnel floor	ft	20.5

Table 2. Concluded.

$\Delta r/R$	r/R	Segment Mass	Segment Torsional Intertia Slug-Ft ²	Centroid Distance Forward of Elastic Axis Ft	Center of Gravity Distance Forward of Elastic Axis Ft
.0540	.0649	.325	.00166	0	0
.0975	.1406	.541	.02407	.0833	-.0792
.1136	.2462	.259	.02572	-.00183	-.0550
.0758	.3409	.170	.01652	-.00367	-.0572
.0758	.4167	.170	.01617	-.00334	-.0572
.0758	.4925	.182	.01754	-.00216	-.176
.0758	.5683	.218	.01924	-.00167	-.0242
.0758	.6441	.228	.01965	-.00134	.0484
.0568	.7104	.173	.01589	-.00134	.0594
.0568	.7672	.187	.01706	-.0140	.0594
.0379	.8145	.101	.009464	-.0140	-.0026
.0568	.8619	.151	.01473	-.0140	0.0
.0610	.9208	.265	.01979	-.0140	-.0132
.0246	.9636	.044	.003787	-.0433	-.1584
.0246	.9882	.022	.004869	-.2391	-.4246

Table 3. Rotor blade tip segment data

ITEM	QUANTITY					
	Swept Tapered		Tapered		Swept	
Tip Configuration						
Segment $\Delta r/R$.0246	.0246	.0246	.0246	.0246	.0246
Segment r/R	.9636	.9636	.9636	.9636	.9636	.9636
Segment Δr (ft)	.541	.541	.541	.541	.541	.541
Segment r (ft)	21.20	21.20	21.20	21.20	21.20	21.20
Segment Mass (slugs)	.044	.044	.049	.014	.025	.022
Segment Torsional Inertia Slug-ft ²	.003787	.004869	.0038	.0011	.0054	.0043
Centroid Distance Forward of Elastic Axis (ft)	-.0433	-.2391	-.0141	-.0141	-.0308	-.0132
Center of Gravity Distance Forward of Elastic Axis (ft)	-.1584	-.4246	-.2002	-.1496	-.2926	-.209
Chord (ft)	1.205	.923	1.205	.923	1.292	1.292
Quarter Chord Distance Forward of Elastic Axis (ft)	-.055	-.3608	0.0	0.0	-.0374	0.0
Total Tip Mass (slugs)	.066	.063	.063	.063	.075	.080
Total Tip Chordwise Mass Moment (Slug-ft, + fwd)	-.0163	-.0119	-.0119	-.0119	-.0264	-.0167
Total Tip Moment of Inertia (Slug-ft ²)	.00856	.0049	.0049	.0049	.0151	.0086
Tip Outboard Chord/Inboard Chord	.6	.6	.6	.6	1.0	1.0
Tip Leading Edge Sweep (deg)	35.	6.9	6.9	6.9	20.0	0.
Tip Quarter Chord Sweep (deg)	30.	0.	0.	0.	20.0	0.
Tip Trailing Edge Sweep (deg)	10.	-19.9	-19.9	-19.9	20.0	0.

Table 4. Blade airfoil and planform description.

radial station r/R	airfoil	tab	chord
0.182 to 0.189	SC1513-R8	$\delta = -1.66^\circ$ $c = 0.5$ in $t = 0.05$ in	1.304 ft
0.189 to 0.455	blend region		1.304 ft
0.455 to 0.795	SC1095-R8	$\delta = -2^\circ$ $c = 0.5$ in $t = 0.05$ in	1.304 ft
0.795 to 0.833	blend region		1.304 ft
0.833 to 0.951	SC1095	$\delta = -3^\circ$ $c = 0.5$ in $t = 0.05$ in	1.292 ft
0.951 to 1.000 interchangeable tip	SC1095	$\delta = -3^\circ$ $c = 0.5$ in $t = 0.04$ in	root 1.292 ft tapered tip 0.779 ft

Table 5. Blade airfoil contours -- upper surface.

	SC-1013R8	SC-1095R8	SC-1095
x/c	y/c	y/c	y/c
0.0	0.0	0.0	0.0
0.00082	0.0069777	0.0050470	0.0039650
0.00397	0.0177877	0.0128660	0.0091750
0.00966	0.0300702	0.0217500	0.0152640
0.01833	0.0425185	0.0307540	0.0219940
0.02999	0.0542701	0.0392540	0.0287360
0.04457	0.0654769	0.0473600	0.0349250
0.06199	0.0731251	0.0528920	0.0401600
0.08217	0.0793230	0.0573750	0.0442810
0.10499	0.0843084	0.0609810	0.0473760
0.13025	0.0881354	0.0637490	0.0500600
0.15775	0.0908824	0.0657359	0.0521800
0.18729	0.0926382	0.0670059	0.0539200
0.21866	0.0934885	0.0676209	0.0550200
0.23495	0.0936033	0.0677040	0.0553800
0.25163	0.0935244	0.0676469	0.0555220
0.26865	0.0932659	0.0674599	0.0555560
0.28598	0.0928345	0.0671479	0.0554370
0.30361	0.0922428	0.0667199	0.0551880
0.32150	0.0915004	0.0661829	0.0548320
0.33961	0.0906184	0.0655450	0.0543890
0.35793	0.0896050	0.0648119	0.0538760
0.37642	0.0884699	0.0639910	0.0533060
0.39505	0.0872229	0.0630890	0.0526880
0.41380	0.0858735	0.0621130	0.0520280
0.43262	0.0844301	0.0610690	0.0513280
0.45150	0.0829024	0.0599640	0.0505870
0.47042	0.0812959	0.0588020	0.0498000
0.48934	0.0796216	0.0575910	0.0489610
0.50825	0.0778769	0.0563290	0.0480630
0.52714	0.0759870	0.0549620	0.0470950
0.54599	0.0739850	0.0535140	0.0460470
0.56481	0.0718753	0.0519880	0.0449100
0.58359	0.0696632	0.0503880	0.0436730
0.60232	0.0673544	0.0487180	0.0423260
0.62098	0.0649543	0.0469820	0.0408720
0.63956	0.0624713	0.0451860	0.0393000
0.65802	0.0599122	0.0433350	0.0376160
0.67634	0.0572868	0.0414360	0.0358230
0.69447	0.0546074	0.0394980	0.0339350
0.71239	0.0518824	0.0375270	0.0319640
0.73005	0.0491243	0.0355320	0.0299320
0.74742	0.0463426	0.0335200	0.0278610
0.76446	0.0435526	0.0315020	0.0257780
0.78113	0.0407655	0.0294860	0.0237120
0.79740	0.0379921	0.0274800	0.0216950
0.81323	0.0352464	0.0254940	0.0197570
0.82860	0.0325366	0.0235340	0.0178200
0.84378	0.0297288	0.0215730	0.0158830
0.85780	0.0272788	0.0197310	0.0140010
0.87178	0.0250303	0.0181300	0.0121740
0.88478	0.0229813	0.0167890	0.0104070
0.89732	0.0213498	0.0157580	0.0088860
0.90932	0.0197884	0.0150800	0.0074750
0.92036	0.01866210	0.0147890	0.006360
0.93123	0.0178536	0.0148000	-0.0002830
0.94199	0.01720697	0.014970	-0.0010618
0.95036	0.01670014	0.0150010	-0.0017000

Table 6. Blade airfoil contours -- lower surface.

x/c	SC-1013R8 y/c	SC-1095R8 y/c	SC-1095 y/c
0.0	0.0	0.0	0.0
0.00150	-0.0104008	-0.0075230	-0.0045890
0.00524	-0.0167398	-0.0121080	-0.0090190
0.01119	-0.0212413	-0.0153640	-0.0136550
0.01943	-0.0245525	-0.0177590	-0.0183320
0.03009	-0.0268973	-0.0194550	-0.0228170
0.04321	-0.0286185	-0.0207000	-0.0268230
0.05876	-0.0303356	-0.0219420	-0.0301220
0.07669	-0.0315039	-0.0227870	-0.0326180
0.09694	-0.0323721	-0.0234150	-0.0343760
0.11945	-0.0330855	-0.0239310	-0.0356080
0.14410	-0.0337533	-0.0244140	-0.0366080
0.17077	-0.0344390	-0.0249100	-0.0376320
0.19929	-0.0351634	-0.0254340	-0.0387180
0.22946	-0.0359003	-0.0259670	-0.0393250
0.24509	-0.0362570	-0.0262250	-0.0393920
0.26106	-0.0365930	-0.0264680	-0.0394470
0.27733	-0.0368971	-0.0266880	-0.0394000
0.29387	-0.0371626	-0.0268800	-0.0392680
0.31065	-0.0373755	-0.0270340	-0.0390670
0.32765	-0.0375304	-0.0271460	-0.0388090
0.34483	-0.0376188	-0.0272100	-0.0385050
0.36217	-0.0376368	-0.0272230	-0.0381680
0.37965	-0.0375801	-0.0271820	-0.0378020
0.39723	-0.0374515	-0.0270890	-0.0374130
0.41492	-0.0372511	-0.0269440	-0.0370030
0.43270	-0.0369870	-0.0267530	-0.0365730
0.45059	-0.0366690	-0.0265230	-0.0361190
0.46861	-0.0363054	-0.0262600	-0.0356380
0.48680	-0.0359142	-0.0259770	-0.0351230
0.50519	-0.0355146	-0.0256800	-0.0345660
0.52379	-0.0350252	-0.0253340	-0.0339580
0.54262	-0.0344031	-0.0248840	-0.0332880
0.56167	-0.0336579	-0.0243450	-0.0325470
0.58093	-0.0327952	-0.0237210	-0.0317250
0.60037	-0.0318260	-0.0230200	-0.0308130
0.61997	-0.0307573	-0.0222470	-0.0298040
0.63968	-0.0296015	-0.0214110	-0.0286940
0.65947	-0.0283697	-0.0205200	-0.0274820
0.67928	-0.0270701	-0.0195800	-0.0261730
0.69906	-0.0257166	-0.0186010	-0.0247730
0.71876	-0.0243161	-0.0175880	-0.0232990
0.73831	-0.0228838	-0.0165520	-0.0217690
0.75767	-0.0213602	-0.0154500	-0.0202070
0.77676	-0.0199500	-0.0144300	-0.0186460
0.79552	-0.0184693	-0.0133590	-0.0171180
0.81386	-0.0169914	-0.0122900	-0.0156630
0.83172	-0.0155245	-0.0112290	-0.0143170
0.84902	-0.0140784	-0.0101830	-0.0131170
0.86566	-0.0126613	-0.0091580	-0.0120980
0.88158	-0.0112939	-0.0081690	-0.0110770
0.89693	-0.0098644	-0.0072670	-0.0100520
0.91253	-0.0082988	-0.0064560	-0.0090190
0.92799	-0.0064248	-0.0057070	-0.0080010
0.94304	-0.0042518	-0.0050530	-0.0070310
0.95758	-0.0012913	-0.0045340	-0.0062330
1.00000	-0.0000028	-0.0000020	-0.0017000

Application brief of the

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Table 7. Continued.

CD DATA	THICK	TAR ANGLE	-3.0 DEG.	
1300AIRFOIL CD				
ALPHA = 5R				
NPTS = 180.0000	THICK = 1300	-175.0000	0650	1100
-150.0000	1.0250	-65.0000	1.0000	.6300
-30.0000	0.270	-10.0000	0162	.0103
-2.0000	0.094	10.0000	0084	.0090
6.0000	0.127	30.0000	0162	.0216
14.0000	0.6300	175.0000	0650	1.0000
150.0000	THICK = 1100	175.0000	0650	.8000
NPTS = 2R				
-150.0000	THICK = 1300	-175.0000	0650	1100
-150.0000	1.0250	-65.0000	1.0000	.6300
-30.0000	0.270	-10.0000	0162	.0103
-2.0000	0.094	10.0000	0084	.0090
6.0000	0.127	30.0000	0162	.0216
14.0000	0.6300	175.0000	0650	1.0000
150.0000	THICK = 1100	175.0000	0650	.8000
NPTS = 14				
-30.0000	THICK = 1300	-175.0000	0650	1100
-2.0000	1.0250	-65.0000	1.0000	.6300
6.0000	0.270	-10.0000	0162	.0103
30.0000	0.094	10.0000	0084	.0090
14.0000	0.127	30.0000	0162	.0216
150.0000	0.6300	175.0000	0650	1.0000
NPTS = 13				
-30.0000	THICK = 1300	-175.0000	0650	1100
-2.0000	1.0250	-65.0000	1.0000	.6300
6.0000	0.270	-10.0000	0162	.0103
30.0000	0.094	10.0000	0084	.0090
14.0000	0.127	30.0000	0162	.0216
150.0000	0.6300	175.0000	0650	1.0000
NPTS = 9				
-30.0000	THICK = 1300	-175.0000	0650	1100
-2.0000	1.0250	-65.0000	1.0000	.6300
6.0000	0.270	-10.0000	0162	.0103
30.0000	0.094	10.0000	0084	.0090
14.0000	0.127	30.0000	0162	.0216
150.0000	0.6300	175.0000	0650	1.0000
NPTS = 9				
-30.0000	THICK = 1300	-175.0000	0650	1100
-2.0000	1.0250	-65.0000	1.0000	.6300
6.0000	0.270	-10.0000	0162	.0103
30.0000	0.094	10.0000	0084	.0090
14.0000	0.127	30.0000	0162	.0216
150.0000	0.6300	175.0000	0650	1.0000
NPTS = 1A				
-30.0000	THICK = 1300	-175.0000	0650	1100
-2.0000	1.0250	-65.0000	1.0000	.6300
6.0000	0.270	-10.0000	0162	.0103
30.0000	0.094	10.0000	0084	.0090
14.0000	0.127	30.0000	0162	.0216
150.0000	0.6300	175.0000	0650	1.0000
NPTS = 17				
-30.0000	THICK = 1300	-175.0000	0650	1100
-2.0000	1.0250	-65.0000	1.0000	.6300
6.0000	0.270	-10.0000	0162	.0103
30.0000	0.094	10.0000	0084	.0090
14.0000	0.127	30.0000	0162	.0216
150.0000	0.6300	175.0000	0650	1.0000
NPTS = 14				
-30.0000	THICK = 1300	-175.0000	0650	1100
-2.0000	1.0250	-65.0000	1.0000	.6300
6.0000	0.270	-10.0000	0162	.0103
30.0000	0.094	10.0000	0084	.0090
14.0000	0.127	30.0000	0162	.0216
150.0000	0.6300	175.0000	0650	1.0000

Table 7. Continued.

[illegible]

Table 7. Continued.

CWDATA		1300CAIRFOIL		DATA		TAN ANGLE = -3.0 DEG.			
ALPHA	CE	MACH	CE	THICK	THICK	THICK	THICK	THICK	THICK
NPTS = 33									
-125.0000	-0.130	-170.0000	0000	3500	-140.0000	1300	3000	-145.0000	4010
-130.0000	-0.570	-90.0000	0000	5550	-40.0000	0000	3950	-30.0000	1700
-2.0000	0.002	-14.0000	0000	0250	-10.0000	0000	0134	-4.0000	0007
4.0000	-0.024	0.0000	0000	0004	2.0000	0000	0013	4.0000	0011
95.0000	-0.259	30.0000	0000	-0.072	10.0000	0000	-0.156	12.0000	0195
145.0000	-0.550	110.0000	0000	-1700	45.0000	0000	-2950	20.0000	5000
180.0000	-0.410	150.0000	0000	-5600	125.0000	0000	-570	35.0000	5300
NPTS = 33									
-125.0000	-0.130	-170.0000	2000	-4380	160.0000	1300	-3000	174.0000	3590
-130.0000	-0.570	-90.0000	0000	THICK =					
-2.0000	0.002	-14.0000	0000	3590	-160.0000	1300	3000	-145.0000	4010
4.0000	-0.024	0.0000	0000	5550	-60.0000	0000	3950	-30.0000	1700
95.0000	-0.259	30.0000	0000	0250	-10.0000	0000	0134	-4.0000	0007
145.0000	-0.550	110.0000	0000	0004	2.0000	0000	-0.156	12.0000	0195
180.0000	-0.410	150.0000	0000	-0.072	10.0000	0000	-0.136	20.0000	5000
NPTS = 14									
-30.0000	1700	-14.0000	3000	-4380	160.0000	1300	-3000	174.0000	3590
-2.0000	-0.004	0.0000	0000	THICK =					
14.0000	-0.204	30.0000	0000	0246	-10.0000	1300	0127	-4.0000	0000
30.0000	-0.001	10.0000	0000	0000	2.0000	0000	-0.011	4.0000	0011
NPTS = 11									
-30.0000	1700	-10.0000	4000	-1700	4.0000	1300	-0.009	-2.0000	0004
-2.0000	-0.001	0.0000	0000	0122	4.0000	0000	-0.015	6.0000	0019
14.0000	-0.004	10.0000	0000	-0.022	30.0000	1300	-0.1700		
30.0000	-0.003	0.0000	0000	THICK =					
NPTS = 9									
-30.0000	1700	-6.0000	5000	0018	4.0000	1300	-0.026	-2.0000	0012
-2.0000	-0.003	0.0000	0000	THICK =					
30.0000	-0.002	0.0000	0000	0004	4.0000	0000	-0.019	6.0000	0018
NPTS = 7									
-30.0000	1700	-4.0000	6000	THICK =					
-2.0000	-0.006	4.0000	0000	-0.046	2.0000	1300	-0.014	0.000	0001
13.0000	-0.000	7000	0000	THICK =					
30.0000	-0.010	20.0000	0000	1300	-12.0000	1300	-0.050	-8.0000	0360
6.0000	-0.010	8.0000	0000	-0.020	9.0000	0000	-0.240	3.4000	0340
NPTS = 13									
-30.0000	1600	-10.0000	7500	-0.065	9.0000	0000	-0.920	20.0000	1500
-2.0000	-0.050	-2.0000	0000	THICK =					
4.0000	-0.0450	6.0000	0000	0700	-8.0000	1300	0500	-6.0000	0300
30.0000	-0.160	0.0000	0000	-1010	8.0000	0000	-1.050	10.0000	1050
NPTS = 15									
-30.0000	1500	-8.0000	8000	THICK =					
-2.0000	-0.0120	0.0000	0000	0750	-6.0000	1300	0600	-4.0000	0350
1.5000	-0.0170	2.0000	0000	-0.200	4.0000	0000	-0.750	1.0000	0120
0.7000	-0.1150	18.0000	0000	-1300	30.0000	0000	-1.500	6.0000	1000

NPTS	= 17	MACH	= 1.400	THICK	= 1.300				
-30.0000		-8.0000		-6.0000		-4.0000			
-2.5000		-0.170		1.0000		-0.010			
2.0000		-0.350		6.0000		-0.1370			
30.0000		MACH= 1.900							
NPTS	= 17	MACH	= 1.400	THICK	= 1.300				
-30.0000		-8.0000		-6.0000		-4.0000			
-2.5000		-0.170		1.0000		-0.010			
2.0000		-0.350		6.0000		-0.1370			
30.0000		MACH= 1.900							
NPTS	= 17	MACH	= 1.400	THICK	= 1.300				
-30.0000		-8.0000		-6.0000		-4.0000			
-2.5000		-0.170		1.0000		-0.010			
2.0000		-0.350		6.0000		-0.1370			
30.0000		MACH= 1.900							

Table 8. SC-1095-R8 airfoil data.

CL DATA	CL	DATA	THICK	TAR ANGLE = -3.0 DEG.		
ALPHA = 24						
NPTS = 10	MACH	0.0000	0.0000	0.0000	0.0000	0.0000
-10	-1.0000	-172.0000	-160.0000	-158.0000	-158.0000	-158.0000
-30	-1.4000	-10.0000	-70.0000	-73.0000	-6.7000	-6.7000
-12	-1.4000	13.0000	10.0000	1.3000	11.0000	11.0000
-19	-1.0000	130.0000	14.0000	1.5300	15.2000	15.2000
-150	-1.0000	156.0000	30.0000	1.0000	149.0000	149.0000
-172	-1.0000	180.0000	158.0000	-1.6000	160.0000	160.0000
NPTS = 26	MACH	0.0000	0.0000	0.0000	0.0000	0.0000
-10	-1.0000	-172.0000	-160.0000	-158.0000	-158.0000	-158.0000
-30	-1.4000	-10.0000	-70.0000	-73.0000	-6.7000	-6.7000
-12	-1.4000	13.0000	10.0000	1.3000	11.0000	11.0000
-19	-1.0000	130.0000	14.0000	1.5300	15.2000	15.2000
-150	-1.0000	156.0000	30.0000	1.0000	149.0000	149.0000
-172	-1.0000	180.0000	158.0000	-1.6000	160.0000	160.0000
NPTS = 13	MACH	0.0000	0.0000	0.0000	0.0000	0.0000
-10	-1.0000	-172.0000	-160.0000	-158.0000	-158.0000	-158.0000
-30	-1.4000	-10.0000	-70.0000	-73.0000	-6.7000	-6.7000
-12	-1.4000	13.0000	10.0000	1.3000	11.0000	11.0000
-19	-1.0000	130.0000	14.0000	1.5300	15.2000	15.2000
-150	-1.0000	156.0000	30.0000	1.0000	149.0000	149.0000
-172	-1.0000	180.0000	158.0000	-1.6000	160.0000	160.0000
NPTS = 14	MACH	0.0000	0.0000	0.0000	0.0000	0.0000
-10	-1.0000	-172.0000	-160.0000	-158.0000	-158.0000	-158.0000
-30	-1.4000	-10.0000	-70.0000	-73.0000	-6.7000	-6.7000
-12	-1.4000	13.0000	10.0000	1.3000	11.0000	11.0000
-19	-1.0000	130.0000	14.0000	1.5300	15.2000	15.2000
-150	-1.0000	156.0000	30.0000	1.0000	149.0000	149.0000
-172	-1.0000	180.0000	158.0000	-1.6000	160.0000	160.0000
NPTS = 15	MACH	0.0000	0.0000	0.0000	0.0000	0.0000
-10	-1.0000	-172.0000	-160.0000	-158.0000	-158.0000	-158.0000
-30	-1.4000	-10.0000	-70.0000	-73.0000	-6.7000	-6.7000
-12	-1.4000	13.0000	10.0000	1.3000	11.0000	11.0000
-19	-1.0000	130.0000	14.0000	1.5300	15.2000	15.2000
-150	-1.0000	156.0000	30.0000	1.0000	149.0000	149.0000
-172	-1.0000	180.0000	158.0000	-1.6000	160.0000	160.0000
NPTS = 14	MACH	0.0000	0.0000	0.0000	0.0000	0.0000
-10	-1.0000	-172.0000	-160.0000	-158.0000	-158.0000	-158.0000
-30	-1.4000	-10.0000	-70.0000	-73.0000	-6.7000	-6.7000
-12	-1.4000	13.0000	10.0000	1.3000	11.0000	11.0000
-19	-1.0000	130.0000	14.0000	1.5300	15.2000	15.2000
-150	-1.0000	156.0000	30.0000	1.0000	149.0000	149.0000
-172	-1.0000	180.0000	158.0000	-1.6000	160.0000	160.0000

Table 8. Continued.

NPTS = 14	MACH =						
-30.0000	-9500	-16.0000	.6500	THICK =	-13.0000	-7720	-7400
-30.0000	-6400	-12.0000	.0000	-2900	.0000	-0450	:2300
15.0000	.4400	6.0000	.0000	.6400	.0000	.7600	:6020
NPTS = 14	MACH =	30.0000	.0000	1.0000	.0900		
-30.0000	-9500	-16.0000	.0000	THICK =	-13.0000	-7120	-6700
-30.0000	-6430	-12.0000	.0000	-7540	.0000	-1500	:0000
2.0000	.1300	4.0000	.0000	.3900	.6.0000	.6400	:7650
NPTS = 13	MACH =	30.0000	.0000	1.0000	.0900		
-30.0000	-9500	-16.0000	.0000	THICK =	-13.0000	-6960	-6510
-30.0000	-6410	-12.0000	.0000	-7410	.0000	-0900	:1800
4.0000	.4350	6.0000	.0000	.6000	.0.0000	.7950	:A100
NPTS = 13	MACH =	2.0000	.0000	THICK =	-13.0000	-6700	-6300
-30.0000	-9500	-16.0000	.0000	-7260	.0000	-0500	:2000
-30.0000	-6150	-12.0000	.0000	.7000	.0.0000	.0060	:8500
4.0000	.4490	6.0000	.0000				
30.0000	1.0000						

Table 8. Continued.

CDDATA	CD	AIRFOIL	CD	DATA	THICK	TAR ANGLE	-3.0 DEG.		
ALPHA = 32									
NPTS = 150.0000		MACH = 200		-179.0000	0.0000	-175.0000	0.0000	0.4500	1.000
-150.0000		-6420		-115.0000	1.0000	-65.0000	0.0000	1.0000	.6300
-30.0000		-6300		-10.0000	0.2500	-7.0000	0.0000	0.0400	.0500
-5.0000		-0090		-4.0000	0.0200	-4.0000	0.0000	0.0100	.0110
11.0000		-0100		4.0000	0.1000	9.0000	0.0000	0.0100	.0140
16.3000		-0100		12.0000	0.0200	13.0000	0.0000	0.0300	.0600
150.0000		-6420		172.0000	0.6300	175.0000	0.0000	0.6500	1.0000
NPTS = 32									
-150.0000		MACH = 200		-179.0000	0.0000	-175.0000	0.0000	0.6500	1.000
-150.0000		-6420		-115.0000	1.0000	-65.0000	0.0000	1.0000	.6300
-30.0000		-6300		-10.0000	0.2500	-7.0000	0.0000	0.0400	.0500
-5.0000		-0090		-4.0000	0.0200	-4.0000	0.0000	0.0100	.0110
11.0000		-0100		4.0000	0.1000	9.0000	0.0000	0.0300	.0600
16.3000		-0100		12.0000	0.6300	13.0000	0.0000	0.6500	1.000
150.0000		-6420		172.0000	1.0000	175.0000	0.0000	1.0000	.6300
NPTS = 19									
-30.0000		MACH = 300		-10.0000	0.0000	-7.0000	0.0000	1.0100	0.620
-5.0000		-6300		-4.0000	0.2000	-4.0000	0.0000	0.0100	.0100
-30.0000		-0090		1.0000	0.0800	3.0000	0.0000	0.0900	.0110
-5.0000		-0100		15.0000	0.1750	10.0000	0.0000	0.2700	.0500
12.0000		-1360		15.0000	0.2300	30.0000	0.0000	0.6300	
NPTS = 19									
-30.0000		MACH = 300		-10.0000	0.0000	-7.0000	0.0000	1.0600	0.700
-5.0000		-6300		-4.0000	0.2000	-4.0000	0.0000	0.0150	.0100
-30.0000		-0090		1.0000	0.0800	3.0000	0.0000	0.0900	.0095
-5.0000		-0100		15.0000	0.1700	10.0000	0.0000	0.2700	.0440
12.0000		-1360		15.0000	0.2300	30.0000	0.0000	0.6300	
NPTS = 20									
-30.0000		MACH = 300		-10.0000	0.0000	-4.0000	0.0000	1.3700	0.810
-5.0000		-6450		-4.0000	0.3500	-4.0000	0.0000	0.2500	.0170
-30.0000		-0120		1.0000	0.0800	4.0000	0.0000	0.2500	.0300
-5.0000		-0100		10.0000	0.1600	15.0000	0.0000	0.3000	.6300
6.0000		-0400		10.0000	0.1700	15.0000	0.0000	0.3000	
NPTS = 14									
-30.0000		MACH = 300		-10.0000	0.0000	-7.0000	0.0000	1.5500	0.900
-5.0000		-6400		-3.0000	0.2700	-2.0000	0.0000	0.1300	.0100
-30.0000		-0100		1.0000	0.1150	2.0000	0.0000	0.2500	.1600
-5.0000		-0300		30.0000	0.4300	2.0000	0.0000	0.2500	
15.0000		-6300		-10.0000	0.3200	-2.0000	0.0000	1.4000	1.090
-30.0000		-0135		-10.0000	0.2400	-2.0000	0.0000	0.1500	.0120
-5.0000		-0150		15.0000	0.3300	30.0000	0.0000	0.6300	.1300

Table 8. Continued.

NPTS = 20	8000	THICK =	10:0000	2250	-8:0000	1700
-30:0000	-12:0000	2900	-10:0000	0420	-2:0000	0250
-6:0000	-14:0000	:0750	-13:0000	:0250	-5:0000	:0350
-1:0000	-2:0000	:0700	4:0000	:1080	6:0000	:1480
5:0000	10:0000	:2300	12:0000	:2450	30:0000	:6300
NPTS = 17	-12:0000	THICK =	-10:0000	2620	-9:0000	2100
-30:0000	-14:0000	3300	-10:0000	:0660	-1:0000	:0630
-6:0000	1:0000	:1150	-12:0000	:1000	-4:0000	:1330
6:0000	6:0000	:0780	10:0000	:2620	12:0000	:3225
NPTS = 15	-1:0000	THICK =	-10:0000	2970	-8:0000	2480
-30:0000	-12:0000	3700	-10:0000	:1170	-6:0000	:1000
-6:0000	-14:0000	:1520	-12:0000	:2150	8:0000	:2550
2:0000	4:0000	:1630	30:0000	:6300		
NPTS = 15	12:0000	THICK =	-10:0000	2970	-8:0000	2480
-30:0000	-12:0000	3420	-10:0000	:1170	-6:0000	:1000
-6:0000	-14:0000	:1520	-12:0000	:2150	8:0000	:2550
2:0000	4:0000	:1700	30:0000	:6300		
10:0000	12:0000	:3425				

Table 8. Continued.

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Table 8. Concluded.

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Table 9. SC-1095 airfoil data.

CLDATA	0950AIRFOIL	CL	DATA	THICK	TAB ANGLE	-3.0 DEG.	
ALPHA 23	MACH	CL					
NPTS -100.0000	-1.0000	0.0000	-172.0000	7800	-160.0000	0950	9500
-35.0000	-1.5000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
11.0000	1.2100	0.0000	11.8000	1.2100	12.6000	0.0000	7400
30.0000	1.0000	0.0000	150.0000	7800	156.0000	0.0000	1100
160.0000	1.6400	0.0000	172.0000	180.0000	180.0000	0.0000	13500
NPTS =23	MACH	CL					
-100.0000	-1.0000	0.0000	-172.0000	7800	-160.0000	0950	9500
-35.0000	-1.5000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
11.0000	1.2100	0.0000	11.8000	1.2100	12.6000	0.0000	7400
30.0000	1.0000	0.0000	150.0000	7800	156.0000	0.0000	1100
160.0000	1.6400	0.0000	172.0000	180.0000	180.0000	0.0000	13500
NPTS =13	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.5200	0.0000	-33.6000	1.4000	13.5000	0.0000	7400
30.0000	1.2000	0.0000	11.5000	1.1700	13.5000	0.0000	1100
NPTS =13	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.5500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =12	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.5800	0.0000	-33.6000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =12	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.7200	0.0000	-40.0000	1.9000	15.0000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =11	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.6500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.9500	0.0000	-40.0000	1.9000	15.0000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.6000	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					
-100.0000	-1.0000	0.0000	-10.0000	3000	-9.4000	0.0000	6000
-35.0000	-1.4500	0.0000	-33.5000	1.4000	13.5000	0.0000	7400
30.0000	1.0000	0.0000	11.0000	1.0800	11.5000	0.0000	1100
NPTS =14	MACH	CL					

Table 9. Continued.

NPTS = 13	MACH =	THICK =				
-30.0000	-9500	-7410	-13.0000	-6960	-10.0000	-6510
-6.0000	-2.0000	-2700	.0000	-0900	12.0000	.1800
4.0000	6.0000	.6000	8.0000	.7950	10.0000	.1100
30.0000	1.0000					
NPTS = 13	MACH =	THICK =				
-30.0000	-9500	-7260	-13.0000	-6780	-10.0000	-6300
-6.0000	-2.0000	-2400	.0000	-0500	12.0000	.2000
4.0000	6.0000	.7000	8.0000	.8060	10.0000	.0500
30.0000	1.0000					

Table 9. Continued.

CD DATA	CD	DATA	THICK	TAR ANGLE	-3.0 DEG.
ALPHA = 34					
NPTS = 180	MACH	0200	0250	0950	
-150	0420	-179	1.0800	-175	0650
-30	0300	-115	02100	-190	2.0400
-6	0160	-10	00120	-4	0590
	0083	-6	00095	-5	0095
10	0085	4	00250	7	0120
30	0300	10	0650	12	0560
90	0200	150	06400	65	1.0800
179	0250	180	0200	172	1.1100
NPTS = 34	MACH	0200	0250	0950	
-180	0420	-179	1.0800	-175	0650
-150	0300	-115	02100	-190	2.0400
-30	0160	-10	00120	-4	0590
-6	0083	-6	00095	-5	0095
10	0085	4	00250	7	0120
30	0300	10	0650	12	0560
90	0200	150	06400	65	1.0800
179	0250	180	0200	172	1.1100
NPTS = 18	MACH	0200	0250	0950	
-30	0240	-10	0180	-7	0600
9	0083	-5	0083	-4	0110
15	0200	4	00200	6	0105
30	0300	30	06300	10	0270
NPTS = 18	MACH	0200	0250	0950	
-30	0240	-10	0180	-7	0600
-5	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 16	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 16	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7	0200	4	0085	4	0095
15	0300	30	06300	9	0450
NPTS = 14	MACH	0200	0250	0950	
-30	0300	-10	01500	-8	0500
-3	0083	-5	00140	-4	0100
7</					

Table 9. Continued.

NPTS = 20	MACH =	THICK =				
-30.0000	.6300	.2900	-10.0000	.2250	-8.0000	.1600
-6.0000	.1000	.0450	-3.0000	.0170	-2.0000	.0200
-1.0000	.0250	.0190	4.0000	.0900	.5000	.1200
8.0000	.1700	.0400	12.0000	.2850	6.0000	.6300
NPTS = 17	MACH =	THICK =				
-30.0000	.4300	.2250	-10.0000	.2620	-8.0000	.2030
-6.0000	.1400	.1150	-3.0000	.0660	-2.0000	.0550
-1.0000	.0500	.0400	4.0000	.0400	.5000	.1200
8.0000	.1670	.2100	12.0000	.2420	6.0000	.6325
NPTS = 15	MACH =	THICK =				
-30.0000	.4300	.3700	-10.0000	.2970	-8.0000	.2480
-6.0000	.2020	.1525	-3.0000	.1170	-2.0000	.0900
-1.0000	.1175	.3430	4.0000	.2030	.5000	.2490
8.0000	.2980	.3620	12.0000	.6300	6.0000	
NPTS = 15	MACH =	THICK =				
-30.0000	.4300	.3620	-10.0000	.2970	-8.0000	.2480
-6.0000	.2020	.1525	-3.0000	.1170	-2.0000	.0900
-1.0000	.1175	.3430	4.0000	.2030	.5000	.2490
8.0000	.2980	.3620	12.0000	.6300	6.0000	

Table 9. Continued.

CMDATA 0950AIRFOIL		CM DATA	TAR ANGLE = -3.0 DEG.			
ALPHA	MACH	CM	THICK			
NPTS = 29						
-10.0000	0.130	-174.0000	0950	-160.0000	-145.0000	0010
-125.0000	0.570	-190.0000	0950	-60.0000	-30.0000	01650
-30.0000	1.650	-10.0000	0950	0.0000	0.0000	00000
-16.0000	1.402	30.0000	0950	30.0000	12.9000	02200
-35.0000	2.220	45.0000	0950	60.0000	34.9000	05000
-95.0000	5.550	110.0000	0950	125.0000	80.0000	05380
-145.0000	0.410	150.0000	0950	160.0000	135.0000	053590
NPTS = 29						
-10.0000	0.130	-174.0000	0950	-160.0000	-145.0000	0010
-125.0000	0.570	-190.0000	0950	-60.0000	-30.0000	01650
-30.0000	1.650	-10.0000	0950	0.0000	0.0000	00000
-16.0000	1.402	30.0000	0950	30.0000	12.9000	02200
-35.0000	2.220	45.0000	0950	60.0000	34.9000	05000
-95.0000	5.550	110.0000	0950	125.0000	80.0000	05380
-145.0000	0.410	150.0000	0950	160.0000	135.0000	053590
NPTS = 9						
-10.0000	0.137	-10.0000	0950	-6.0000	6.0000	0052
-10.0000	0.110	11.2000	0950	12.4000	16.0000	01329
NPTS = 9						
-10.0000	0.137	-10.0000	0950	-6.0000	9.0000	0038
-10.0000	0.130	12.0000	0950	14.0000	16.0000	01548
NPTS = 9						
-10.0000	0.137	-10.0000	0950	-6.0000	6.2000	0073
-10.0000	0.099	11.0000	0950	13.2000	16.0000	01549
NPTS = 10						
-10.0000	0.137	-10.0000	0950	-6.0000	-4.0000	0134
-10.0000	0.032	4.0000	0950	6.0000	8.0000	00954
NPTS = 10						
-10.0000	0.137	-10.0000	0950	-6.0000	-2.8000	0209
-10.0000	0.071	2.6000	0950	4.0000	5.4000	01135
NPTS = 15						
-10.0000	0.151	-10.0000	0950	-6.0000	-4.0000	0350
-10.0000	0.150	0.0000	0950	5.0000	1.0000	0120
NPTS = 17						
-10.0000	0.1150	-10.0000	0950	-6.0000	6.0000	01000
-10.0000	0.1400	0.0000	0950	30.0000	1.500	0030
-10.0000	0.120	-10.0000	0950	-6.0000	-2.500	0120
-10.0000	0.170	0.0000	0950	1.0000	1.5000	0300
-10.0000	0.1350	4.0000	0950	6.0000	8.0000	01600

Table 9. Concluded.

NPTS = 17	THICK =					
-30.0000	1.0000	-8.0000	-6.0000	.0970	-4.0000	.0430
-2.5000	.0000	.0000	.0000	.0010	.2500	.0120
2.5000	.7500	.0090	1.0000	.0070	1.5000	.0300
30.0000	4.0000	.0030	6.0000	.1370	8.0000	.1600
NPTS = 17	THICK =					
-30.0000	2.0000	-8.0000	-6.0000	.0970	-4.0000	.0430
-2.5000	.0000	.0000	.0000	.0010	.2500	.0120
2.5000	.7500	.0090	1.0000	.0070	1.5000	.0300
30.0000	4.0000	.0030	6.0000	.1370	8.0000	.1600

Table 10. Equations used for tare corrections.

For $q \leq 35 \text{ lb/ft}^2$

$$\begin{bmatrix} \frac{L}{q} \\ \frac{D}{q} \\ \frac{M}{q} \\ \frac{Y}{q} \\ \frac{N}{q} \\ \frac{\Delta}{q} \end{bmatrix} = \begin{bmatrix} 1.7586 & 1.32067 & -0.01323 & 0.5183 & -0.01022 \\ 20.6243 & .04693 & .01658 & -.19167 & -.0029 \\ 76.965 & 5.3724 & .2225 & -14.593 & .3009 \\ -15.11 & .1186 & .0029 & .9598 & -.0187 \\ 75.6737 & -2.1815 & -.01196 & -4.566 & .0889 \\ 181.81 & -.0844 & -.02368 & -13.296 & .2658 \end{bmatrix} \begin{bmatrix} 1 \\ \alpha \\ \alpha^2 \\ q \\ q^2 \end{bmatrix}$$

For $q > 35 \text{ lb/ft}^2$

$$\begin{bmatrix} \frac{L}{q} \\ \frac{D}{q} \\ \frac{M}{q} \\ \frac{Y}{q} \\ \frac{N}{q} \\ \frac{\Delta}{q} \end{bmatrix} = \begin{bmatrix} 6.2831 & 1.3151 & -0.01606 & 0.0522 & -0.00025 \\ 17.6884 & 0.01516 & .01728 & -.0067 & .00006 \\ -65.602 & 5.02 & .21357 & -.2198 & .00094 \\ 6.0 & .1148 & .00227 & .0736 & -.00045 \\ 32.7186 & -2.0611 & -.00289 & -.3598 & .0021 \\ 60.765 & -.0739 & -.01542 & -.9136 & .00567 \end{bmatrix} \begin{bmatrix} 1 \\ \alpha \\ \alpha^2 \\ q \\ q^2 \end{bmatrix}$$

Table 11. Rotor and test module instrumentation.

Parameter	Units	Positive Direction
Normal bending moment, .3R	in-lb	tip upward
.5R	in-lb	tip downward
.6R	in-lb	tip upward
.7R	in-lb	tip upward
Edgewise bending moment, .5R	in-lb	tip aft
.6R	in-lb	tip aft
.7R	in-lb	tip aft
Pitch link load	lb	tension
Rotor shaft torque	ft-lb	power to rotor
Nose vertical acceleration	g	--
Cross beam longitudinal acceleration	g	--
Tail lateral acceleration	g	--

Table 12. Bending gage locations.

Nominal Station	r/R
30%	0.504
50%	0.515
60%	0.604
70%	0.683

Table 13. Configurations tested.

Tip Planform	Run Numbers
Swept/tapered	1-22, 52-56, 60-63
Swept	47-51, 59
Tapered	23-38, 57-58
Rectangular	39-46

Table 14. Dictionary of parameters in data tables and plots.

Code	Parameter
ALFC	control plane angle-of-attack, $\alpha_c = \alpha - B_1 =$ corrected shaft angle minus longitudinal cyclic control angle (deg)
ALFS,U	shaft angle-of-attack, uncorrected (deg)
ALT	alternating load ($\frac{1}{2}$ peak-to-peak)
A1	lateral cyclic control angle A_1 (deg)
B1C	longitudinal flapping angle relative shaft, β_{1c} , positive forward (deg)
B1S	lateral flapping angle relative shaft, β_{1s} , positive to port (deg)
CL/S, CLR/S	C_L/σ
CMX/S	C_{M_x}/σ
CMY/S	C_{M_y}/σ
CMZ/S	C_{M_z}/σ
COS	cosine component of Fourier series
CP/S	C_P/σ
CPO/S	C_{P_0}/σ
CX/S, CXR/S	C_x/σ
CYR/S	C_y/σ
E5	blade edgewise bending moment, .5R
E6	blade edgewise bending moment, .6R
E7	blade edgewise bending moment, .7R
HARMONIC	harmonic number of Fourier series

Table 14. Concluded.

Code	Parameter
LN4 ACC	magnitude 4/rev cross beam longitudinal acceleration
MAT	M_{at}
MEAN	mean load
NV4 ACC	magnitude 4/rev nose vertical acceleration
N3	blade normal bending moment, .3R
N5	blade normal bending moment, .5R
N6	blade normal bending moment, .6R
N7	blade normal bending moment, .7R
OMEG*R	ΩR (ft/sec)
OSC	oscillatory load ($\frac{1}{2}$ peak-to-peak)
PL	pitch link load
PSI	blade azimuth angle (deg)
Q	rotor shaft torque
RHO, RHO100	air density ρ (slug/ft ³)
SIN	sine component of Fourier series
THETA	rotor collective pitch θ_{75} (deg)
TL4 ACC	magnitude 4/rev tail lateral acceleration
VKTS	V (knots)
V/OR	$V/\Omega R$
ϵ_v	rms interpolation error in plots

Table 15. Key to tabulated performance data (page numbers)

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660	A2			
0.075	0.595	0.640	A4			
0.150	0.595	0.685	A6			
0.200	0.600	0.720	A9	A43	A57	A74
0.250	0.600	0.750	A14			
0.300	0.600	0.780	A17	A46	A61	A77
0.375	0.600	0.825	A24	A48	A66	A82
0.390	0.595	0.825	A27	A50		A85
0.400	0.600	0.840	A27			
0.250	0.650	0.815	A34			
0.375	0.650	0.895	A35	A52		A87
0.375	0.685	0.940	A39	A55	A71	
0.250	0.700	0.875	A41			
0.375	0.700	0.965	A42		A73	

Table 16. Key to tabulated loads data.

Tip Planform	Page Number
Swept/Tapered	B2
Swept	B39
Tapered	B50
Rectangular	B65

Table 17. Test conditions for detailed loads data.

V/Ω_R	M_{tip}	M_{at}	α	Θ_{75}	Remarks
0.20	0.60	0.72	10 -2.5 -5 0	8 8 13 12	plus $\alpha = -7.5$, $\Theta = 16$ for swept/tapered missing $\alpha = 10$, $\Theta = 8$ and $\alpha = 0$, $\Theta = 12$ for swept
0.30	0.60	0.78	-5 -10 0 high power	10 12 12	
0.375	0.60	0.825	-5 -10 0	12 14 12	plus $\alpha = -10$, $\Theta = 16$ for swept/tapered
0.25	0.60	0.75	-2.5 -5 0	8 14 12	swept/tapered only
0.40	0.60	0.84	-5 -10 0	12 15 12	swept/tapered only
0.375	0.65	0.895	-5 -10 0	12 15.5 11.5	swept/tapered only

Table 18. Key to tabulated detailed loads data (page numbers).

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660				
0.075	0.595	0.640				
0.150	0.595	0.685				
0.200	0.600	0.720	C2	C46	C64	C86
0.250	0.600	0.750	C28			
0.300	0.600	0.780	C12	C50	C72	C94
0.375	0.600	0.825	C20	C58	C80	C102
0.390	0.595	0.825				
0.400	0.600	0.840	C34			
0.250	0.650	0.815				
0.375	0.650	0.895	C40			
0.375	0.685	0.940				
0.250	0.700	0.875				
0.375	0.700	0.965				

Table 19. Key to plotted power data (page numbers)

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660	D2			
0.075	0.595	0.640	D3			
0.150	0.595	0.685	D4			
0.200	0.600	0.720	D5	D14	D19	D24
0.250	0.600	0.750	D6			
0.300	0.600	0.780	D7	D15	D20	D25
0.375	0.600	0.825	D8	D16	D21	D26
0.390	0.595	0.825				
0.400	0.600	0.840	D9			
0.250	0.650	0.815	D10			
0.375	0.650	0.895	D11	D17		D27
0.375	0.685	0.940	D12	D18	D22	
0.250	0.700	0.875				
0.375	0.700	0.965	D13		D23	

Table 20. Key to plotted nonideal power data (page numbers)

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660	D28			
0.075	0.595	0.640	D29			
0.150	0.595	0.685	D30			
0.200	0.600	0.720	D31	D40	D45	D50
0.250	0.600	0.750	D32			
0.300	0.600	0.780	D33	D41	D46	D51
0.375	0.600	0.825	D34	D42	D47	D52
0.390	0.595	0.825				
0.400	0.600	0.840	D35			
0.250	0.650	0.815	D36			
0.375	0.650	0.895	D37	D43		D53
0.375	0.685	0.940	D38	D44	D48	
0.250	0.700	0.875				
0.375	0.700	0.965	D39		D49	

Table 21. Key to plotted pitch link load data (page numbers)

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660	D54			
0.075	0.595	0.640				
0.150	0.595	0.685	D55			
0.200	0.600	0.720	D56	D64	D68	D73
0.250	0.600	0.750	D57			
0.300	0.600	0.780	D58	D65	D69	D74
0.375	0.600	0.825	D59	D66	D70	D75
0.390	0.595	0.825				
0.400	0.600	0.840	D60			
0.250	0.650	0.815	D61			
0.375	0.650	0.895	D62	D67		D76
0.375	0.685	0.940			D71	
0.250	0.700	0.875				
0.375	0.700	0.965	D63		D72	

Table 22. Key to plotted normal bending moment data (page numbers)

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660	D77			
0.075	0.595	0.640				
0.150	0.555	0.685	D78			
0.200	0.600	0.720	D79		D86	D89
0.250	0.600	0.750	D80			
0.300	0.600	0.780	D81	D85	D87	D90
0.375	0.600	0.825	D82		D88	D91
0.390	0.595	0.825				
0.400	0.600	0.840	D83			
0.250	0.650	0.815				
0.375	0.650	0.895	D84			
0.375	0.685	0.940				
0.250	0.700	0.875				
0.375	0.700	0.965				

Table 23. Key to plotted edgewise bending moment data (page numbers)

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660	D92			
0.075	0.595	0.640				
0.150	0.595	0.685	D93			
0.200	0.600	0.720	D94		D101	D104
0.250	0.600	0.750	D95			
0.300	0.600	0.780	D96	D100	D102	D105
0.375	0.600	0.825	D97		D103	D106
0.390	0.595	0.825				
0.400	0.600	0.840	D98			
0.250	0.650	0.815				
0.375	0.650	0.895	D99			
0.375	0.685	0.940				
0.250	0.700	0.875				
0.375	0.700	0.965				

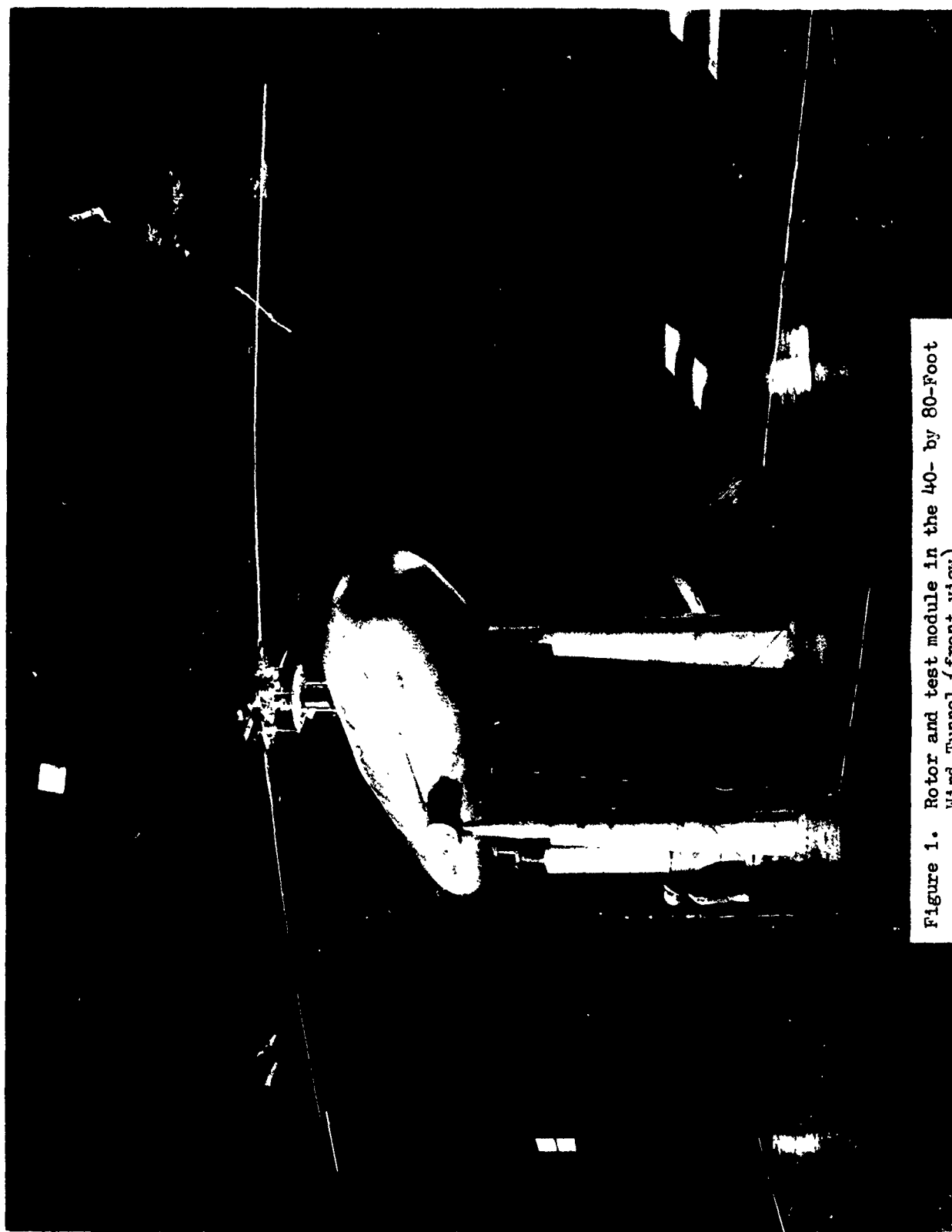


Figure 1. Rotor and test module in the 40- by 80-Foot Wind Tunnel (front view).

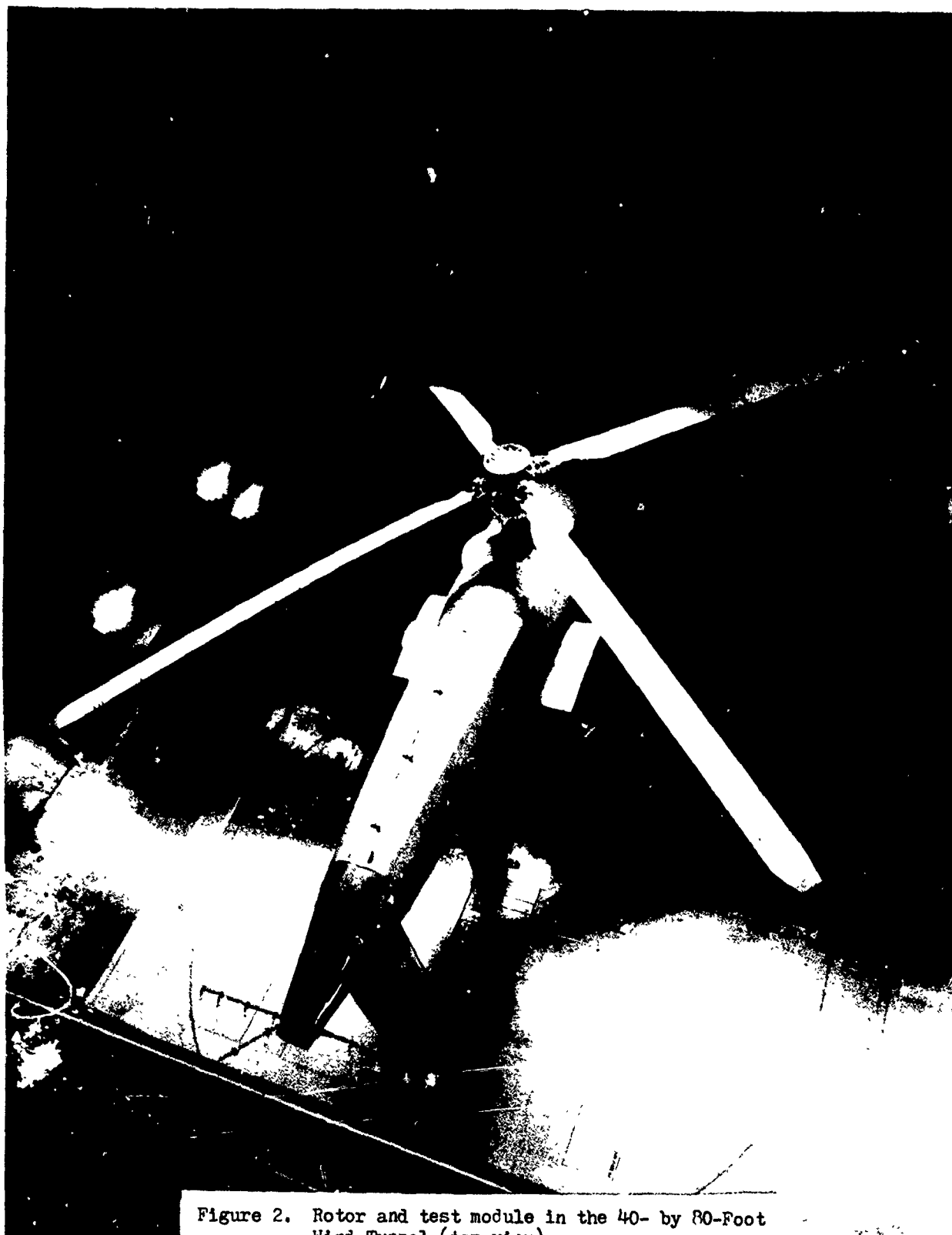


Figure 2. Rotor and test module in the 40- by 80-Foot Wind Tunnel (top view)

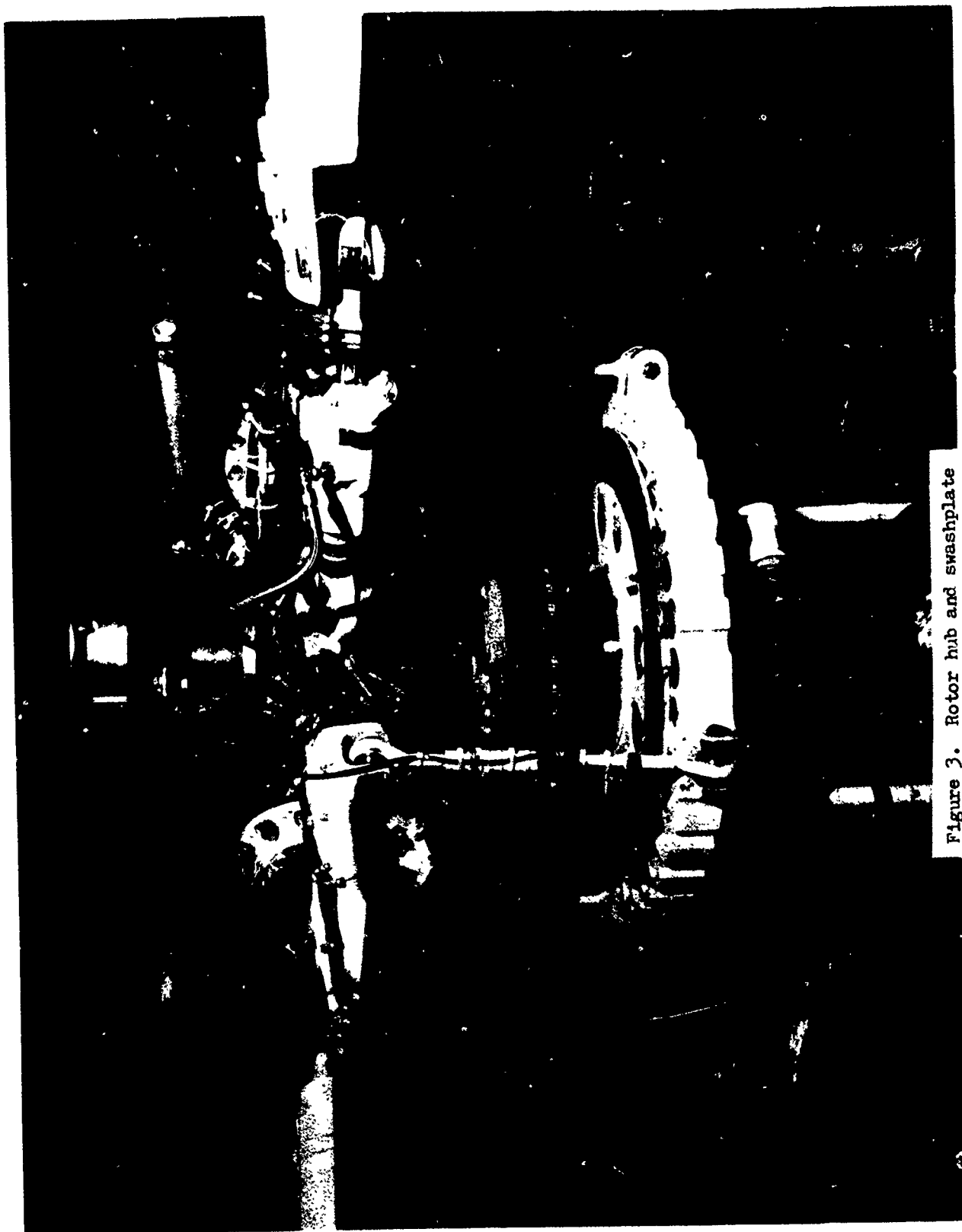


Figure 3. Rotor hub and swashplate

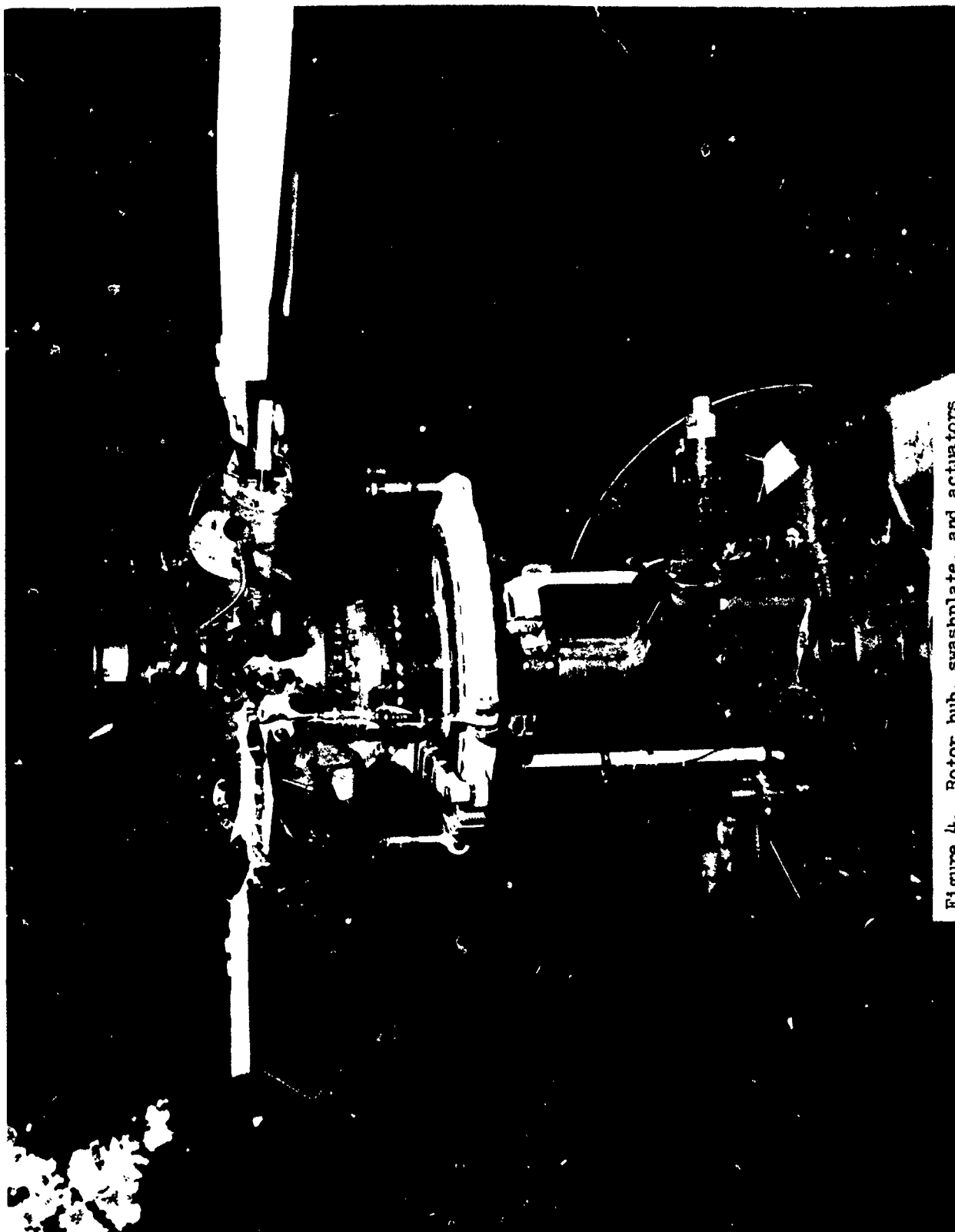


Figure 4. Rotor hub, swashplate, and actuators

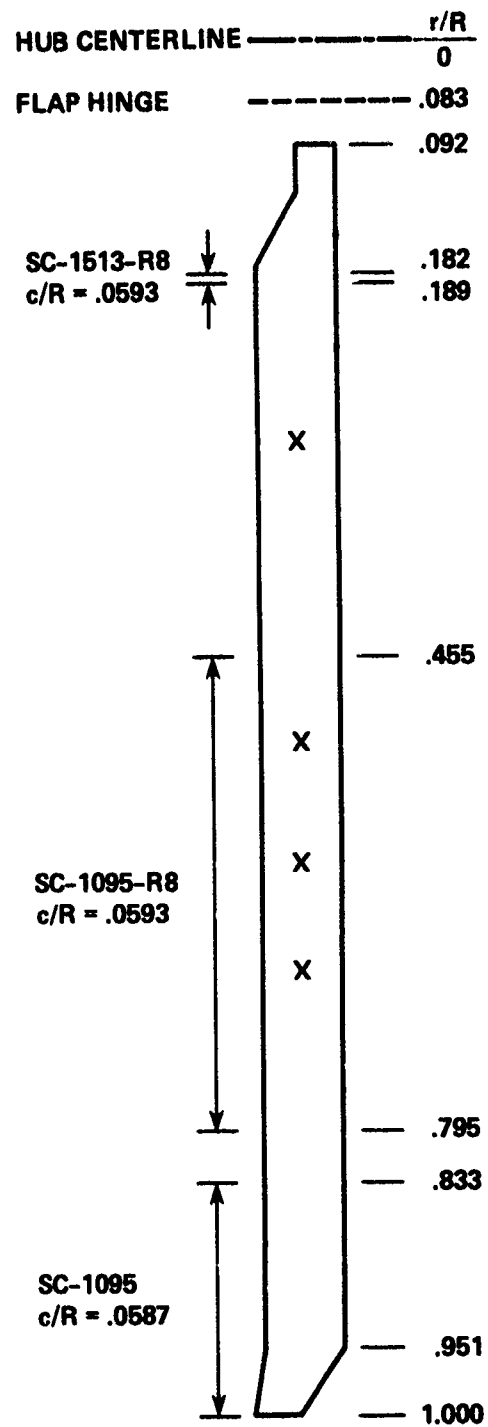
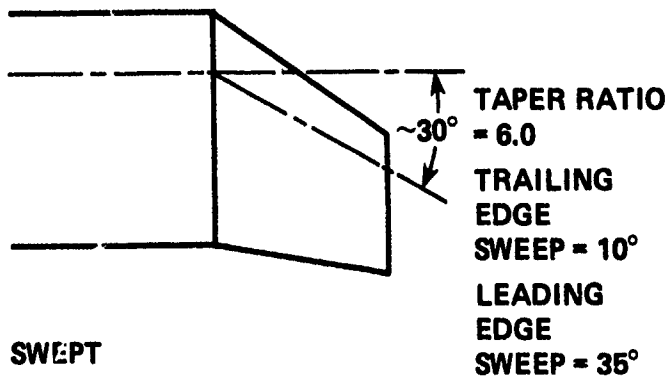
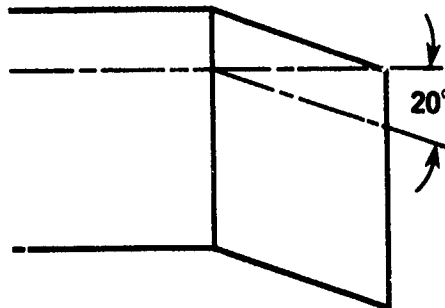


Figure 5. Rotor blade geometry.

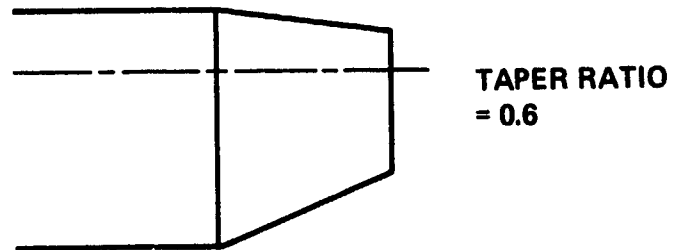
SWEPT/TAPERED



SWEPT



TAPERED



RECTANGULAR

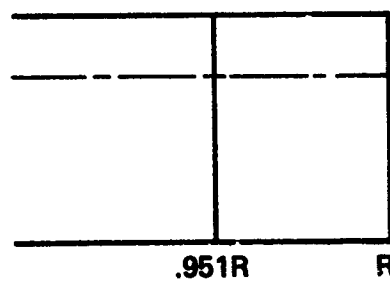


Figure 6. Tip planform geometry.

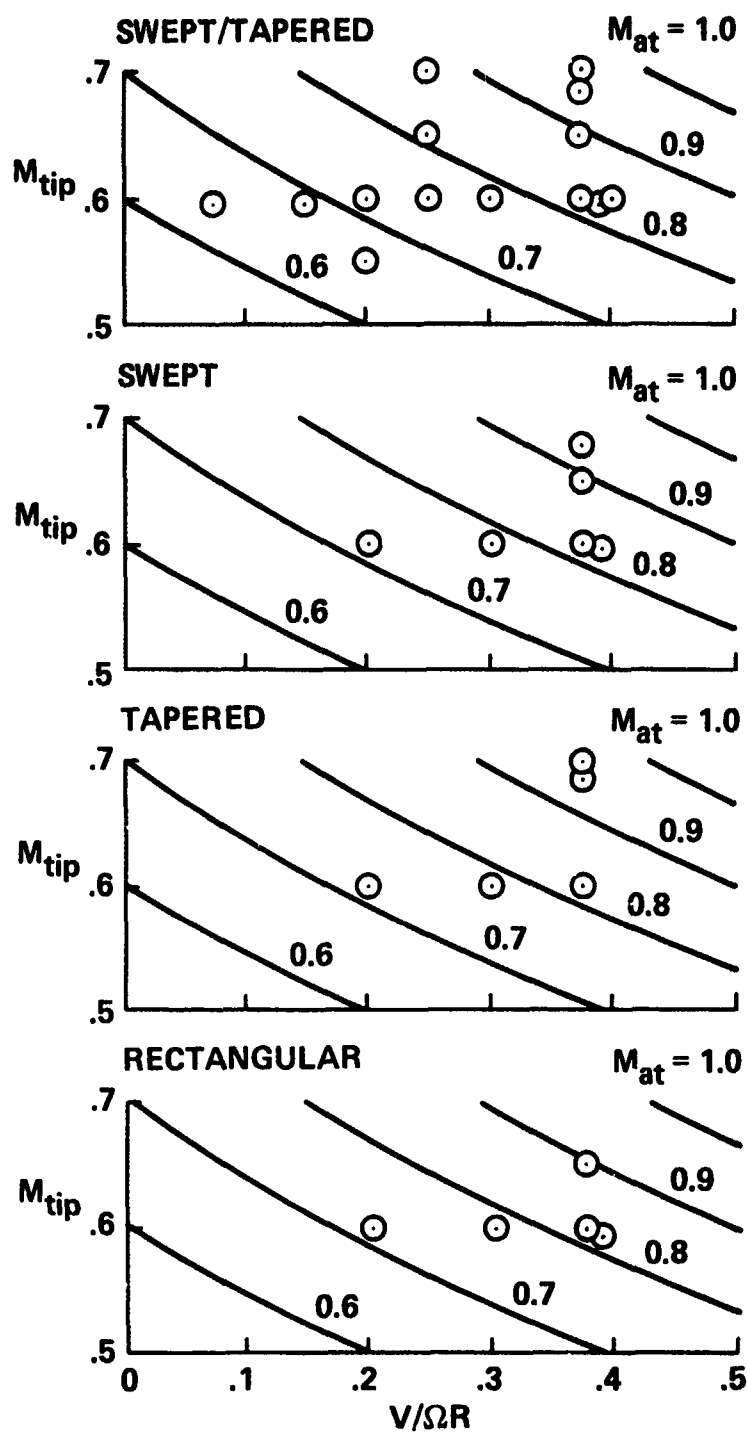


Figure 7. Test conditions for the four tip planforms

SECTION A

Tabulated Performance Data

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1A 2A

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 12							
PT 16	0.2006 73.4 0.0	0.6581 618.1 0.0	-0.002000 -0.000091 0.0023	-0.000830 0.000000	-0.000274 -0.000242	0.001122 0.001289	3.4 -3.1
PT 17	0.2013 73.5 0.0	0.6575 617.2 4.0	0.039320 0.000183 0.0023	-0.000870 0.000000	-0.000918 -0.000166	0.001244 0.001132	2.2 -3.5
PT 18	0.1997 73.1 0.0	0.6581 618.6 6.0	0.059350 0.000180 0.0023	-0.001190 0.000000	-0.001602 -0.000251	0.001635 0.001214	1.5 -4.0
PT 19	0.2007 73.5 0.0	0.6587 618.6 8.0	0.079590 0.000167 0.0023	-0.001470 0.000000	-0.002525 -0.000333	0.002230 0.001345	0.4 -4.1
PT 20	0.2012 73.7 0.0	0.6594 619.0 10.0	0.100170 0.000142 0.0023	-0.001790 0.000000	-0.003920 -0.000430	0.003048 0.001543	-0.6 -4.7
PT 21	0.2013 73.5 -2.5	0.6576 617.2 6.0	0.050390 -0.000266 0.0023	0.001160 0.000000	-0.001250 -0.000453	0.001536 0.001231	-1.1 -3.8
PT 22	0.1995 73.2 -2.5	0.6595 620.0 8.0	0.070880 -0.000181 0.0023	0.001910 0.000000	-0.002069 -0.000481	0.002706 0.001385	-2.1 -4.1
PT 23	0.2002 73.4 -2.5	0.6599 620.0 10.0	0.091900 -0.000131 0.0023	0.002420 0.000000	-0.003569 -0.000640	0.003620 0.001560	-3.1 -4.8
PT 24	0.2011 73.6 -2.5	0.6589 618.6 12.0	0.111580 -0.000243 0.0023	0.002750 0.000000	-0.004843 -0.000682	0.004841 0.001973	-4.0 -5.3

SWEEP/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RH0130	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 25	0.2011 73.4 -5.0	0.6570 616.7 6.0	0.041760 -0.000353 0.0023	0.002770 0.000000	-0.000958 -0.000471	0.002123 0.001241	-3.6 -3.5
PT 26	0.1994 73.1 -5.0	0.6589 619.5 8.0	0.063200 -0.000325 0.0023	0.004360 0.000000	-0.001805 -0.000633	0.002949 0.001331	-4.5 -3.9
PT 27	0.2001 73.3 -5.0	0.6588 619.0 10.0	0.084100 -0.000286 0.0023	0.005750 0.000000	-0.002925 -0.000770	0.004036 0.001563	-5.4 -4.5
PT 28	0.1996 73.2 -5.0	0.6590 619.5 12.0	0.103780 -0.000346 0.0023	0.007220 0.000000	-0.004227 -0.000900	0.005323 0.001866	-6.3 -5.1
PT 29	0.2007 73.7 -5.0	0.6606 620.4 14.0	0.121100 -0.000441 0.0023	0.008810 0.000000	-0.005742 -0.001124	0.006973 0.002474	-7.3 -5.7

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1G 2J

SWEPT/TAPERED TIP	V/OK VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RH0130	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPU/S	ALFC AI
RUN 61							
PT 4	0.0657 26.2 0.0	0.6338 673.2 9.2	0.071060 -0.000265 0.0023	-0.0004270 0.000000	0.000126 -0.000305	0.003866 0.001272	-0.1 2.3
PT 5	0.0759 30.3 0.0	0.6417 675.0 9.1	0.071340 -0.001536 0.0023	-0.001930 0.000000	-0.001869 0.000071	0.003694 0.001334	-2.1 2.6
PT 8	0.0709 30.6 10.0	0.6411 673.2 7.0	0.070600 0.003334 0.0023	-0.019690 0.000000	-0.002323 0.000315	0.001943 0.001035	12.2 0.6
PT 10	0.0755 30.1 0.0	0.6403 673.2 9.1	0.072360 -0.001704 0.0023	-0.002170 0.000000	-0.001058 0.000150	0.003765 0.001336	-1.9 2.6
PT 11	0.0757 30.2 0.0	0.6408 673.6 9.1	0.070610 0.000221 0.0023	0.000690 0.000000	-0.002177 -0.000013	0.003819 0.001305	-4.0 3.5
PT 12	0.0712 28.3 0.0	0.6373 672.7 9.1	0.074240 -0.002463 0.0023	-0.006230 0.000000	-0.000885 0.000092	0.003751 0.001303	1.1 2.0
PT 13	0.0785 31.3 0.0	0.6430 674.1 9.1	0.072440 -0.000967 0.0023	-0.001920 0.000000	-0.001107 0.000235	0.003674 0.001325	-1.8 4.5
PT 14	0.0751 30.0 0.0	0.6409 674.1 9.1	0.071130 -0.001687 0.0023	-0.001730 0.000000	0.001460 0.000859	0.003709 0.001322	-2.5 1.0
PT 15	0.0746 29.8 0.0	0.6406 674.1 9.1	0.071410 -0.001700 0.0023	-0.002200 0.000000	-0.003434 -0.000456	0.003703 0.001313	-1.7 2.8

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 16	0.0748 29.9 0.0	0.6418 674.6 11.1	0.089930 -0.001761 0.0023	-0.006070 0.000000	-0.000778 0.000241	0.005120 0.001530	-0.3 2.7
PT 17	0.0749 29.8 0.0	0.6392 671.8 7.1	0.052150 -0.001480 0.0023	0.000420 0.000000	-0.000615 0.000573	0.002563 0.001175	-3.5 3.0
PT 18	0.0764 30.4 5.0	0.6410 672.7 9.1	0.078690 -0.002022 0.0023	-0.010150 0.000000	-0.000793 -0.000146	0.003544 0.001290	3.6 2.9
PT 19	0.0764 30.5 -5.0	0.6423 674.1 9.1	0.066150 -0.001288 0.0023	0.004910 0.000000	-0.000441 0.000748	0.003827 0.001310	-7.7 3.5
PT 20	0.0782 31.1 0.0	0.6425 673.2 9.1	0.072690 -0.001969 0.0023	-0.001740 0.000000	-0.000863 -0.000315	0.003705 0.001314	-2.3 2.8

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1F 2K

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEGA* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 7							
PT 4	0.1491 59.0 0.0	0.6882 668.6 2.0	0.019620 -0.000164 0.0024	-0.000590 0.000000	-0.000015 -0.0000116	0.001115 0.001106	0.6 4.6
RUN 8							
PT 4	0.1512 59.8 0.0	0.6855 668.6 0.0	-0.001160 -0.000449 0.0023	-0.000630 0.000000	-0.000127 -0.0000076	0.001087 0.001182	0.3 1.4
PT 5	0.1508 59.8 0.0	0.6872 670.4 2.0	0.020240 0.000043 0.0023	-0.000710 0.000000	-0.000127 0.0000002	0.001094 0.001099	0.4 1.3
PT 6	0.1505 59.9 0.0	0.6889 672.3 4.0	0.040080 0.000002 0.0023	-0.001020 0.000000	-0.000636 -0.000156	0.001345 0.001059	-0.3 0.7
PT 7	0.1519 60.2 0.0	0.6873 670.0 6.0	0.059950 -0.000044 0.0023	-0.001520 0.000000	-0.001311 -0.000239	0.001812 0.001158	-1.2 0.4
PT 8	0.1511 60.0 0.0	0.6872 670.9 8.0	0.080150 -0.000010 0.0023	-0.002540 0.000000	-0.002091 -0.000219	0.002478 0.001273	-1.6 0.0
PT 9	0.1514 60.1 0.0	0.6874 670.9 9.0	0.090980 -0.000007 0.0023	-0.003250 0.000000	-0.002722 -0.000263	0.002938 0.001387	-1.9 -0.4
PT 10	0.1518 60.0 0.0	0.6843 667.7 10.0	0.101160 0.000028 0.0023	-0.003830 0.000000	-0.003412 -0.000375	0.003461 0.001523	-2.2 -0.8
PT 11	0.1507 59.7 0.0	0.6862 669.5 11.0	0.109950 -0.000260 0.0023	-0.004160 0.000000	-0.003846 -0.000416	0.004106 0.001735	-2.6 -0.9

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEGA THETA	CLR/S CMY/S RH0130	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 12	0.1503 59.6 0.0	0.6862 670.4 12.0	0.120590 -0.000094 0.0023	-0.005220 0.000000	-0.004642 -0.000381	0.004756 0.001923	-2.7 -1.3
PT 13	0.1502 59.8 0.0	0.6885 672.7 13.0	0.130270 -0.000092 0.0023	-0.005980 0.000000	-0.005434 -0.000375	0.005595 0.002271	3.0 1.8
PT 14	0.1519 60.3 0.0	0.6872 670.4 14.0	0.137900 -0.000268 0.0023	-0.006180 0.000000	-0.006155 -0.000425	0.006507 0.002767	3.0 1.9
PT 15	0.1511 60.1 -2.5	0.6881 671.8 2.0	0.033400 -0.000317 0.0023	0.000410 0.000000	-0.000455 -0.000210	0.001455 0.001118	-1.6 1.8
1 RUN 3 PT	0.1501 59.5 -5.0	0.6894 670.4 4.0	0.021760 -0.000397 0.0024	0.001540 0.000000	0.000151 -0.000025	0.001478 0.001129	-4.6 3.2
PT 4	0.1503 59.4 -5.0	0.6872 668.1 6.0	0.040910 -0.000362 0.0024	0.002860 0.000000	0.000145 -0.000145	0.002005 0.001163	-4.2 3.4
PT 5	0.1500 59.1 -5.0	0.6851 666.3 8.0	0.054070 -0.000427 0.0024	0.003840 0.000000	0.000006 -0.000206	0.002536 0.001232	-4.0 3.6
PT 6	0.1509 59.9 -5.0	0.6899 670.4 10.0	0.070810 -0.000402 0.0024	0.004700 0.000000	-0.000821 -0.000406	0.003320 0.001369	-3.7 4.2
PT 7	0.1507 59.6 -5.0	0.6879 668.6 12.0	0.086250 -0.000408 0.0024	0.005410 0.000000	-0.001390 -0.000497	0.004201 0.001540	-3.3 4.6
PT 8	0.1517 59.8 -5.0	0.6866 666.7 13.0	0.093940 -0.000565 0.0024	0.005790 0.000000	-0.001911 -0.000595	0.004728 0.001676	-3.2 5.1

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RH0100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 9	0.1509 59.4 -5.0	0.6852 065.8 4.0	0.021580 -0.000439 0.0024	0.001560 0.000000	0.000202 -0.000059	0.001483 0.001132	-4.6 3.1

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1A 28

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 10							
PT 3	0.2011 78.8 -5.0	0.7169 662.6 6.0	0.040570 -0.000250 0.0024	0.002970 0.000000	-0.000277 0.000091	0.002176 0.001272	-4.6 2.7
PT 4	0.2004 78.7 -5.0	0.7180 664.0 8.0	0.061290 -0.000333 0.0024	0.004770 0.000000	-0.000604 -0.000046	0.003034 0.001377	-4.3 3.1
PT 5	0.2007 78.9 -5.0	0.7182 664.0 10.0	0.081850 -0.000338 0.0024	0.006310 0.000000	-0.001350 -0.000151	0.004103 0.001588	-4.1 3.6
PT 6	0.2005 79.0 -5.0	0.7205 666.3 11.0	0.092260 -0.000416 0.0024	0.006970 0.000000	-0.001893 -0.000299	0.004721 0.001737	-4.0 4.0
PT 7	0.1995 78.7 -5.0	0.7199 666.3 12.0	0.101170 -0.000457 0.0024	0.007740 0.000000	-0.002943 -0.000443	0.005400 0.001938	-4.0 4.6
PT 8	0.2013 79.0 -5.0	0.7162 663.0 13.0	0.111150 -0.000554 0.0024	0.008590 0.000000	-0.003276 -0.000514	0.006271 0.002248	-3.8 4.8
PT 9	0.2012 79.0 -5.0	0.7166 663.5 14.0	0.119550 -0.000497 0.0024	0.009290 0.000000	-0.003599 -0.000691	0.007168 0.002643	-3.7 3.0
PT 10	0.2021 79.2 0.0	0.7157 662.1 0.0	-0.0004840 -0.000065 0.0024	-0.0003980 0.000000	-0.000508 0.000386	0.001133 0.001326	-0.1 3.0
PT 11	0.2017 79.3 0.0	0.7179 664.4 2.0	0.015540 0.000076 0.0024	-0.000630 0.000000	-0.000334 0.000434	0.001117 0.001199	0.2 3.1

SHEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPD/S	ALFC AI
PT 12	0.2016 79.0 0.0	0.7159 662.6 4.0	0.037280 0.000094 0.0024	-0.000520 0.000000	-0.000375 0.000413	0.001314 0.001160	0.4 3.0
PT 13	0.2006 78.9 0.0	0.7177 664.9 6.0	0.057570 0.000119 0.0024	-0.000720 0.000000	-0.000901 0.000296	0.001696 0.001223	0.6 3.0
PT 14	0.2004 79.0 0.0	0.7179 665.8 8.0	0.078070 -0.000015 0.0024	-0.000690 0.000000	-0.001551 0.000229	0.002362 0.001363	0.9 3.0
PT 15	0.2005 79.0 0.0	0.7179 665.8 10.0	0.098110 0.000028 0.0024	-0.001160 0.000000	-0.002552 0.000215	0.003152 0.001590	1.1 3.0
PT 16	0.2003 78.9 0.0	0.7178 665.8 12.0	0.119120 -0.000154 0.0024	-0.001410 0.000000	-0.003719 0.000129	0.004469 0.002104	1.3 3.0
PT 17	0.2003 78.8 -2.5	0.7168 664.9 5.2	0.007460 -0.000234 0.0024	-0.000400 0.000000	-0.000427 0.000115	0.001170 0.001239	-2.7 3.0
PT 18	0.1997 78.8 -2.5	0.7184 666.7 4.0	0.029260 -0.000118 0.0024	0.000700 0.000000	-0.000493 0.000100	0.001489 0.001190	-2.2 3.0
PT 19	0.2022 79.3 -2.5	0.7160 663.0 6.0	0.049530 -0.000174 0.0024	0.001540 0.000000	-0.000934 -0.000003	0.002019 0.001255	-2.0 3.1
PT 20	0.2008 79.3 -2.5	0.7156 667.2 8.0	0.069400 -0.000210 0.0024	0.002360 0.000000	-0.001528 -0.000044	0.002772 0.001402	-1.7 3.0
PT 21	0.2003 78.9 -2.5	0.7173 665.3 10.0	0.089380 -0.000349 0.0024	0.003150 0.000000	-0.002438 -0.000122	0.003758 0.001637	-1.5 3.0

	SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	NAT OMEG* R THETA	CLK/S CMV/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 22	0.2009 79.4 -2.5	0.7155 667.7 12.0	0.109110 -0.000422 0.0024	0.003900 0.000000	-0.003897 -0.000256	0.005045 0.002046	-1.3 3.0	
PT 23	0.2008 79.1 -2.5	0.7174 665.8 13.0	0.119350 -0.000452 0.0024	0.004170 0.000000	-0.004550 -0.000351	0.005878 0.002390	-1.2 3.1	
PT 24	0.2012 79.0 -7.5	0.7157 664.0 8.0	0.053200 -0.000492 0.0024	0.006600 0.000000	-0.001030 -0.000363	0.003229 0.001374	-6.9 3.1	
PT 25	0.2007 79.0 -7.5	0.7169 665.3 10.0	0.074930 -0.000494 0.0024	0.009250 0.000000	-0.001679 -0.000649	0.004472 0.001570	-6.7 3.0	
PPT 26	0.2009 79.3 -7.5	0.7190 667.2 12.0	0.093910 -0.000568 0.0024	0.011690 0.000000	-0.002838 -0.000846	0.005890 0.001901	-6.5 3.0	
RUN 11 PT 2	0.2014 80.4 -7.5	0.7161 674.3 8.0	0.053780 -0.000401 0.0023	0.006900 0.000000	-0.002218 -0.000747	0.003334 0.001408	-8.0 3.4	
PT 3	0.2014 80.3 -7.5	0.7150 673.9 10.0	0.075130 -0.000255 0.0023	0.009430 0.000000	-0.003244 -0.000931	0.004572 0.001626	-19.5 5.2	
PT 4	0.2033 80.9 -7.5	0.7142 672.3 12.0	0.095000 -0.000350 0.0023	0.012020 0.000000	-0.004939 -0.001180	0.006021 0.001918	-20.3 4.3	
PT 5	0.1999 80.2 -7.5	0.7178 678.0 13.0	0.104320 -0.000443 0.0023	0.013510 0.000000	-0.005557 -0.001377	0.006752 0.002017	-20.8 4.1	
PT 6	0.2006 80.4 -7.5	0.7172 677.1 14.0	0.114040 -0.000620 0.0023	0.014610 0.000000	-0.006154 -0.001508	0.007831 0.002477	-21.1 3.9	

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RH0100	CXR/S CHZ/S	CYR/S CMY/S	CP/S CPD/S	ALFC A1
PT 7	0.2005 80.4 -7.5	0.7181 678.0 15.0	0.121700 -0.000631 0.0023	0.015790 0.000000	-0.006990 -0.001698	0.008892 0.002965	-21.5 3.3
PT 8	0.1997 80.3 -7.5	0.7190 679.4 16.0	0.126420 -0.000688 0.0023	0.016670 0.000000	-0.007277 -0.002071	0.010102 0.003762	-22.4 3.3
PT 9	0.2010 80.4 10.0	0.7152 676.2 0.0	0.029740 0.000332 0.0023	-0.006650 0.000000	-0.001327 0.000107	0.000156 0.001329	-3.5 20.9
PT 10	0.2004 80.3 10.0	0.7162 677.6 1.0	0.038160 0.000503 0.0023	-0.008270 0.000000	-0.001537 0.000144	-0.000090 0.001296	-3.6 20.9
PT 11	0.1996 80.1 10.0	0.7167 678.5 2.0	0.047170 0.000587 0.0023	-0.009810 0.000000	-0.001721 0.000171	-0.000264 0.001277	-4.1 20.8
PT 12	0.2006 80.3 10.0	0.7154 676.6 4.0	0.069610 0.000765 0.0023	-0.014390 0.000000	-0.002800 0.000084	-0.000626 0.001359	-4.8 20.5
PT 13	0.2016 80.6 10.0	0.7150 675.7 6.0	0.089800 0.000882 0.0023	-0.018570 0.000000	-0.003826 0.000066	-0.000810 0.001439	-5.4 20.3
PT 14	0.2019 80.9 10.0	0.7165 677.6 8.0	0.111350 0.000944 0.0023	-0.022960 0.000000	-0.005004 0.000074	-0.000691 0.001650	-6.1 20.2
PT 15	0.2021 80.9 10.0	0.7151 676.2 9.0	0.122540 0.000937 0.0023	-0.025360 0.000000	-0.005867 0.000049	-0.000544 0.001804	-6.5 20.0
RUN 12 PT 3	0.2009 80.2 10.0	0.7190 674.8 4.0	0.068610 0.000489 0.0023	-0.014010 0.000000	-0.002563 -0.000126	-0.000626 0.001313	12.2 -4.1

SWEEP/TAPERED TIP		V/OR VKTS	MAT OMEGA THETA	CLR/S CMY/S RH0130	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
		ALFS,U						
PT	4	0.2008 79.9 10.0	0.7165 672.7 8.0	0.109860 0.000805 0.00023	-0.022450 0.000000	-0.004851 -0.000222	-0.000693 0.001567	10.7 -4.6
PT	5	0.2003 80.0 0.0	0.7186 674.8 8.0	0.081110 0.000129 0.00023	-0.001600 0.000000	-0.002760 -0.000223	0.002260 0.001352	0.4 -4.3
RUN 62	7	0.1994 79.5 -3.8	0.7199 674.1 6.2	0.047220 0.000112 0.00023	0.002400 0.000000	-0.001423 -0.000218	0.002144 0.001248	-10.0 8.3
PT	8	0.2007 79.9 -2.9	0.7199 672.7 9.0	0.079630 0.000204 0.00023	0.002930 0.000000	-0.002935 -0.000326	0.003282 0.001513	-10.5 7.6
PT	3	0.2002 79.4 -2.9	0.7208 670.0 9.0	0.082660 0.000039 0.00023	0.003100 0.000000	-0.003152 -0.000310	0.003427 0.001531	-10.0 7.6
PT	4	0.2016 79.8 -2.9	0.7202 668.6 9.0	0.073870 -0.000788 0.00023	0.005770 0.000000	-0.002559 -0.000410	0.003717 0.001543	-12.3 8.2
PT	20	0.1989 78.6 -2.9	0.7180 668.1 9.0	0.089430 0.000830 0.00023	-0.000020 0.000000	-0.003473 -0.000180	0.002996 0.001496	-8.1 6.9
PT	21	0.1998 79.5 -3.8	0.7194 672.7 6.9	0.049990 -0.000270 0.00023	0.003180 0.000000	-0.001473 -0.000296	0.002394 0.001291	-7.9 8.6
PT	21	0.2004 79.6 -2.9	0.7169 671.3 9.4	0.082880 -0.000340 0.00023	0.004030 0.000000	-0.002999 -0.000359	0.003665 0.001577	-11.4 7.4

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
18 2C

SHEET/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEGA* THETA	CLR/S CMY/S RH0100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 11							
PT 19	0.2510 100.9 0.0	0.7498 679.4 0.0	-0.001940 0.000135 0.0023	-0.001240 0.000000	-0.000564 0.000106	0.001119 0.001430	-1.5 8.7
PT 20	0.2513 101.0 0.0	0.7494 678.9 2.0	0.017790 0.000262 0.0023	-0.001090 0.000000	-0.000654 0.000091	0.001094 0.001317	-2.3 8.6
PT 21	0.2510 100.7 0.0	0.7476 678.0 4.0	0.038330 0.000373 0.0023	-0.001050 0.000000	-0.001147 0.000034	0.001245 0.001290	-3.3 8.3
PT 22	0.2502 100.7 0.0	0.7491 679.9 6.0	0.058090 0.000359 0.0023	-0.001130 0.000000	-0.001762 0.000095	0.001544 0.001322	-4.3 8.2
PT 23	0.2505 100.7 0.0	0.7487 675.4 8.0	0.077900 0.000349 0.0023	-0.001280 0.000000	-0.002689 -0.000072	0.002120 0.001534	-5.7 8.1
PT 24	0.2505 100.9 0.0	0.7503 680.8 10.0	0.099310 0.000266 0.0023	-0.001440 0.000000	-0.004062 -0.000195	0.002900 0.001790	-6.8 7.5
PT 25	0.2512 101.1 0.0	0.7502 680.3 12.0	0.117520 0.000093 0.0023	-0.001270 0.000000	-0.005751 -0.000209	0.004193 0.002458	-8.1 7.0
PT 26	0.2512 100.8 0.0	0.7481 678.5 13.0	0.124800 0.000074 0.0023	-0.000990 0.000000	-0.006801 -0.000251	0.005110 0.003041	-8.8 6.7
PT 27	0.2512 100.8 -5.0	0.7482 678.5 8.0	0.058600 -0.000070 0.0023	0.004060 0.000000	-0.001790 -0.000400	0.003019 0.001488	-10.4 8.2

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RH0100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 28	0.2502 100.9 -5.0	0.7510 681.7 10.0	0.078110 -0.000255 0.00023	0.005900 0.000000	-0.002796 -0.000594	0.004134 0.001746	-11.7 7.9
RUN 12							
PT 6	0.2504 99.9 0.0	0.7487 674.3 4.0	0.038090 -0.000103 0.00023	-0.001130 0.000000	-0.001066 -0.000227	0.001245 0.001312	1.6 -3.3
PT 7	0.2517 100.3 0.0	0.7480 673.2 8.0	0.079110 0.000033 0.00023	-0.001190 0.000000	-0.002860 -0.000347	0.002124 0.001494	-0.8 -3.9
PT 8	0.2514 100.1 -5.0	0.7478 673.2 8.0	0.059190 -0.000421 0.00023	0.004020 0.000000	-0.001732 -0.000702	0.003026 0.001495	-5.5 -3.5
PT 9	0.2523 100.4 -5.0	0.7474 672.3 10.0	0.078480 -0.000482 0.00023	0.005770 0.000000	-0.002885 -0.000910	0.004072 0.001703	-6.9 -4.0
PT 10	0.2513 100.2 -5.0	0.7488 673.9 12.0	0.097960 -0.000564 0.00023	0.007430 0.000000	-0.004081 -0.000965	0.005389 0.002093	-7.9 -4.4
PT 11	0.2503 100.1 -5.0	0.7507 676.2 14.0	0.114340 -0.000580 0.00023	0.009360 0.000000	-0.005695 -0.001254	0.007080 0.002784	-9.1 -5.1
PT 12	0.2514 100.0 -2.5	0.7461 672.3 6.0	0.046960 -0.000054 0.00023	0.001180 0.000000	-0.001230 -0.000298	0.001950 0.001324	-2.0 -3.2
PT 13	0.2502 99.8 -2.5	0.7474 673.9 8.0	0.068610 -0.000140 0.00023	0.001980 0.000000	-0.002174 -0.000394	0.002674 0.001474	-3.2 -3.6
PT 14	0.2510 100.3 -2.5	0.7494 675.3 10.0	0.088360 -0.000211 0.00023	0.002790 0.000000	-0.003427 -0.000540	0.003567 0.001705	-4.5 -4.0

1.15

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 15	0.2512 100.4 -2.5	0.7496 675.3 12.0	0.107280 -0.000405 0.0023	0.003780 0.000000	-0.004714 -0.000673	0.004870 0.002208	-5.8 -4.5
RUN 54							
PT 16	0.2499 101.0 -5.0	0.7520 683.3 8.0	0.057770 -0.000196 0.0023	0.004490 0.000000	-0.001667 -0.000489	0.003131 0.001509	-10.9 3.2
PT 17	0.2502 101.0 -5.0	0.7526 682.4 10.0	0.077400 -0.000361 0.0023	0.006060 0.000000	-0.002676 -0.000599	0.004152 0.001740	-12.0 2.8
PT 18	0.2487 100.6 -5.0	0.7539 683.8 12.0	0.098240 -0.000319 0.0023	0.007850 0.000000	-0.004635 -0.000785	0.005548 0.002144	-13.2 2.0
PT 19	0.2496 100.8 -5.0	0.7536 682.4 10.4	0.082980 -0.000138 0.0023	0.005610 0.000000	0.001688 0.000548	0.004278 0.001847	-11.1 5.7
PT 20	0.2509 100.8 -5.0	0.7508 679.2 10.4	0.079430 -0.000298 0.0023	0.006880 0.000000	-0.006869 -0.001645	0.004470 0.001804	-13.1 0.2

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1C 2D

SWEPT/TAPERED TIP	V/DR VKTS ALFS,U	MAT OMEGA* THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPQ/S	ALFC AI
RUN 14							
PT 3	0.3007 119.0 0.0	0.7802 668.6 0.0	-0.003260 -0.000405 0.00023	-0.001460 0.000000	-0.000482 -0.000215	0.001167 0.001604	0.6 0.2
PT 4	0.3020 118.9 0.0	0.7773 665.3 2.0	0.014700 0.000304 0.00023	-0.001170 0.000000	-0.000466 -0.000139	0.001138 0.001466	-0.5 0.3
PT 5	0.3036 119.4 0.0	0.7749 664.4 4.0	0.035060 -0.000164 0.00023	-0.001030 0.000000	-0.000847 -0.000102	0.001257 0.001418	-1.5 0.1
PT 6	0.2998 119.3 0.0	0.7809 672.3 6.0	0.053200 -0.000167 0.00023	-0.000810 0.000000	-0.001374 -0.000153	0.001582 0.001471	-3.0 0.1
PT 7	0.3008 119.7 0.0	0.7807 672.3 8.0	0.072120 -0.000266 0.00023	-0.000300 0.000000	-0.002171 -0.000270	0.002186 0.001630	-4.6 -0.1
PT 8	0.2989 119.5 0.0	0.7839 675.7 10.0	0.091330 -0.000265 0.00023	-0.000320 0.000000	-0.003648 -0.000381	0.002909 0.001962	-6.0 -0.5
PT 9	0.3003 119.7 0.0	0.7818 673.9 12.0	0.108000 -0.000377 0.00023	0.000170 0.000000	-0.005376 -0.000586	0.004180 0.002679	-7.4 -1.3
PT 10	0.3003 119.7 -5.0	0.7813 673.4 6.0	0.032330 -0.000474 0.00023	0.001700 0.000000	-0.000619 -0.000517	0.002180 0.001539	-7.5 0.3
PT 11	0.2997 119.7 -5.0	0.7818 674.8 8.0	0.052140 -0.000463 0.00023	0.003520 0.000000	-0.001482 -0.000654	0.003020 0.001625	-8.9 -0.2

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHJ100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 12	0.3009 119.9 -5.0	C.7802 673.4 10.0	0.070690 -0.000710 0.0023	0.005460 0.000000	-0.002402 -0.000875	0.004093 0.001830	-10.5 -0.5
PT 13	0.2996 119.6 -5.0	C.7802 674.8 12.0	0.089330 -0.000711 0.0023	0.007150 0.000000	-0.003283 -0.000959	0.005307 0.002169	-11.7 -0.9
PT 14	0.3003 120.1 -5.0	0.7817 675.7 14.0	0.105230 -0.000794 0.0023	0.009160 0.000000	-0.004749 -0.001240	0.007149 0.003019	-12.9 -1.9
PT 15	0.2999 119.8 -5.0	C.7809 675.3 15.0	0.110440 -0.000811 0.0023	0.010150 0.000000	-0.005284 -0.001505	0.008359 0.003795	-13.6 -2.4
PT 16	0.2998 119.9 -5.0	0.7814 675.7 12.0	0.073760 -0.002068 0.0023	0.010270 0.000000	-0.001464 -0.001004	0.005861 0.002102	-13.9 0.4
PT 17	0.3010 119.9 -5.0	0.7795 673.4 8.7	0.073000 0.000768 0.0023	0.001540 0.000000	-0.002505 -0.000552	0.002765 0.001641	-7.0 -1.2
PT 18	0.3012 119.9 -10.0	0.7779 672.7 8.0	0.028730 -0.000670 0.0023	0.004160 0.000000	-0.000316 -0.000763	0.002888 0.001533	-13.3 0.5
PT 19	0.3008 120.0 -15.0	0.7790 674.3 10.0	0.048260 -0.000839 0.0023	0.007830 0.000000	-0.000740 -0.001201	0.004363 0.001718	-14.8 0.1
PT 20	0.3012 120.3 -10.0	0.7798 674.8 12.0	0.068310 -0.000858 0.0023	0.011570 0.000000	-0.001660 -0.001569	0.006030 0.001965	-16.1 -0.5
RUN 15 PT 3	0.3015 119.0 -7.5	C.7783 667.2 8.0	0.038540 -0.000556 0.0023	0.004280 0.000000	-0.000849 -0.000613	0.003113 0.001638	-8.5 -2.8

	SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPD/S	ALFC AI
PT 4	0.3008 119.3 -7.5	0.7809 670.4 9.0	0.046530 -0.000668 0.0023	0.005640 0.000000	-0.001309 -0.000786	0.003684 0.001720	-9.5 -3.2	
PT 5	0.3001 119.3 -7.5	0.7613 671.8 10.0	0.057500 -0.000762 0.0023	0.007180 0.000000	-0.002113 -0.001018	0.004345 0.001778	-10.3 -3.7	
PT 6	0.3010 119.7 -7.5	0.7804 671.8 12.0	0.075390 -0.000833 0.0023	0.009980 0.000000	-0.003472 -0.001297	0.005841 0.002132	-11.6 -4.4	
PT 7	0.3016 119.8 -7.5	0.7794 671.3 14.0	0.093590 -0.000988 0.0023	0.012810 0.000000	-0.005247 -0.001555	0.007557 0.002609	-12.8 -5.1	
PT 8	0.2997 119.6 -7.5	0.7813 674.3 15.0	0.102310 -0.000778 0.0023	0.014070 0.000000	-0.005824 -0.001809	0.008558 0.003035	-13.2 -5.5	
PT 9	0.3016 119.9 6.0	0.7785 671.8 0.0	0.025670 -0.000071 0.0023	-0.004320 0.000000	-0.001634 -0.000010	0.000370 0.001591	8.8 -3.5	
PT 10	0.3020 120.1 6.0	0.7785 672.3 2.0	0.041890 0.000162 0.0023	-0.005980 0.000000	-0.002055 0.000054	-0.000392 0.001496	7.9 -3.6	
PT 11	0.3025 120.2 6.0	0.7778 671.3 4.0	0.061370 0.000210 0.0023	-0.007980 0.000000	-0.002979 0.000020	-0.000320 0.001628	6.7 -3.7	
PT 12	0.3011 120.0 6.0	0.7788 673.4 6.0	0.078870 0.000240 0.0023	-0.009700 0.000000	-0.003896 0.000006	-0.000311 0.001836	5.3 -3.6	
PT 13	0.3011 120.2 6.0	0.7797 674.8 8.0	0.098670 0.000289 0.0023	-0.011630 0.000000	-0.005239 -0.000024	-0.000171 0.002123	3.9 -3.8	

SNEPT/TAPERED TIP		V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RH0100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 14	0.3011 120.3 0.0	0.7802 675.3 10.0	0.116470 0.000291 0.0023	-0.012880 0.000000	-0.006636 -0.000012	0.000536 0.002730	2.3 -4.0	
PT 15	0.3022 120.6 6.0	0.7791 674.3 11.0	0.123000 0.000198 0.0023	-0.012540 0.000000	-0.007539 0.000009	0.001523 0.003441	1.2 -4.2	
RUN 22 PT 3	0.3006 119.2 -2.5	0.7840 670.0 7.3	0.056090 -0.000204 0.0023	0.001520 0.000000	-0.002027 -0.000294	0.002483 0.001636	-5.9 -0.9	
PT 4	0.3030 119.5 -2.5	0.7797 666.3 9.2	0.073270 -0.000226 0.0023	0.002390 0.000000	-0.002723 -0.000406	0.003227 0.001840	-7.1 -0.9	
PT 5	0.3024 119.7 -2.5	0.7818 669.0 10.8	0.088930 -0.000437 0.0023	0.003300 0.000000	-0.004199 -0.000598	0.004087 0.002112	-8.3 -1.3	
PT 6	0.3021 119.9 -6.5	0.7822 670.9 7.7	0.057620 0.000750 0.0023	0.002500 0.000000	-0.002269 -0.000529	0.002798 0.001631	-7.7 -1.8	
PT 7	0.3029 120.0 -6.5	0.7796 669.5 9.6	0.074800 0.000750 0.0023	0.003550 0.000000	-0.003538 -0.000764	0.003642 0.001877	-8.8 -2.2	
PT 8	0.3030 120.0 -6.5	0.7796 669.5 9.6	0.074840 0.000785 0.0023	0.003190 0.000000	-0.000537 0.000060	0.003475 0.001818	-8.0 -0.1	
PT 9	0.3038 120.3 -6.5	0.7782 669.0 11.2	0.090120 0.000607 0.0023	0.004440 0.000000	-0.004853 -0.000937	0.004482 0.002135	-9.8 -2.5	
PT 10	0.3027 120.2 -10.5	0.7786 671.3 8.0	0.061000 0.002335 0.0023	0.002630 0.000000	-0.002326 -0.000658	0.002832 0.001577	-8.4 -2.6	

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEGA* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 11	0.3037 120.6 -10.5	6.7787 670.9 8.0	0.059920 0.002192 0.0023	0.002470 0.000000	-0.000193 -0.000063	0.002808 0.001614	-8.0 -0.9
PT 12	0.3030 120.3 -10.5	6.7783 670.9 10.0	0.076940 0.001868 0.0023	0.004440 0.000000	-0.001218 -0.000453	0.003937 0.001862	-9.8 -1.3
PT 13	0.3033 120.5 -10.5	6.7782 671.3 10.3	0.078080 0.001824 0.0023	0.004820 0.000000	-0.003945 -0.001145	0.004102 0.001888	-10.4 -2.7
PT 14	0.3040 120.8 -10.5	6.7785 671.8 11.8	0.092400 0.001641 0.0023	0.006340 0.000000	-0.005894 -0.001548	0.005198 0.002220	-11.7 -3.6
PT 15	0.3010 120.5 -11.5	6.7825 676.6 10.3	0.060780 0.000428 0.0023	0.008060 0.000000	-0.002088 -0.001367	0.004726 0.001841	-13.6 -1.8
PT 16	0.3028 121.0 -11.5	6.7812 675.3 12.0	0.077060 0.000439 0.0023	0.010610 0.000000	-0.003478 -0.001730	0.006056 0.002112	-14.7 -2.4
PT 17	0.3002 120.7 -11.5	6.7844 679.4 13.9	0.092160 0.000439 0.0023	0.013150 0.000000	-0.004818 -0.002027	0.007605 0.002601	-15.9 -2.8
RUN 60 PT 3	0.2993 119.8 -2.5	6.7818 676.4 9.9	0.070230 -0.000929 0.0023	0.004420 0.000000	-0.002349 -0.000146	0.003886 0.001947	-11.7 3.7
PT 4	0.2992 120.1 -2.5	6.7831 678.2 9.9	0.068950 -0.000981 0.0023	0.004560 0.000000	-0.002280 -0.000146	0.003923 0.001965	-11.9 3.9
PT 5	0.2998 120.2 -2.5	6.7823 677.8 9.9	0.056470 -0.002004 0.0023	0.006020 0.000000	-0.001394 -0.000204	0.004154 0.001952	-13.9 4.8

	SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEGA* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 6	0.3028 120.4 -2.5	0.7761 672.3 9.9	0.081200 0.000055 0.0023	0.001930 0.000000	-0.002770 0.000072	0.003331 0.001932	-9.8 3.0	
PT 7	0.3005 120.2 -2.5	0.7791 675.9 9.9	0.068360 -0.001033 0.0023	0.004460 0.000000	-0.000019 0.000531	0.003911 0.001988	-11.6 5.5	
PT 8	0.3015 120.3 -2.5	0.7775 674.1 9.9	0.068020 -0.001088 0.0023	0.004780 0.000000	-0.004319 -0.000800	0.003986 0.001971	-12.6 2.3	
PT 9	0.3019 120.3 -2.5	0.7765 673.6 9.9	0.069220 -0.000952 0.0023	0.004600 0.000000	-0.002308 -0.000174	0.003952 0.001968	-12.0 3.8	
PT 10	0.3001 120.4 -2.5	0.7802 677.8 11.9	0.096680 -0.000335 0.0023	0.004130 0.000000	-0.003296 0.000032	0.004859 0.002454	-12.0 3.6	
PT 11	0.3011 120.6 -2.5	0.7790 676.9 12.9	0.107970 -0.000022 0.0023	0.003290 0.000000	-0.003773 0.000040	0.005480 0.003043	-12.0 2.8	
PT 12	0.3016 120.5 -2.5	0.7777 675.5 7.9	0.042050 -0.001651 0.0023	0.003640 0.000000	-0.001281 -0.000222	0.003040 0.001723	-12.0 4.6	
PT 13	0.3034 120.4 -2.5	0.7729 670.4 9.9	0.068870 -0.000981 0.0023	0.004660 0.000000	-0.002143 -0.000110	0.003959 0.001960	-12.1 3.7	
PT 14	0.3020 120.7 -3.6	0.7772 675.5 9.9	0.057050 -0.001540 0.0023	0.006270 0.000000	-0.001879 -0.001031	0.004235 0.001938	-13.1 2.6	
PT 15	0.3009 120.5 -0.5	0.7781 676.9 9.9	0.078780 -0.000793 0.0023	0.002410 0.000000	-0.002485 0.000167	0.003462 0.001966	-10.0 3.8	

SHEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 16	0.3039 120.8 -2.5	0.7741 671.8 9.9	0.068050 -0.000939 0.0023	0.004670 0.000000	-0.001077 0.000342	0.003915 0.001927	-11.8 3.7
PT 17	0.3015 120.8 -2.5	0.7778 676.9 9.9	0.068700 -0.000678 0.0022	0.004750 0.000000	-0.003626 -0.000571	0.003962 0.001945	-12.2 4.4
PT 18	0.3018 120.8 -2.5	0.7774 676.4 9.9	0.068480 -0.001277 0.0022	0.004970 0.000000	-0.001106 0.007794	0.003940 0.001859	-12.0 4.3
RUN 63 PT 5	0.2994 118.5 -6.2	0.7807 669.0 8.7	0.052240 -0.000346 0.0023	0.004820 0.000000	-0.001932 -0.000669	0.003458 0.001673	-15.1 8.7
PT 6	0.2991 118.9 -4.2	0.7823 671.8 11.0	0.080690 -0.000569 0.0023	0.005610 0.000000	-0.003531 -0.000643	0.004528 0.002037	-15.4 8.3

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
ID 2E

SWEPT/TAPERED TIP	V/OR VKTS	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 19							
PT 23	0.3750 151.8 -5.0	0.8242 684.0 P.0	0.038500 -0.000040 0.0022	0.002210 0.000000	-0.001666 -0.000211	0.003087 0.002109	-6.1 -2.5
PT 24	0.3761 151.8 -5.0	0.8235 682.2 10.0	0.057200 -0.000074 0.0022	0.004060 0.000000	-0.002877 -0.000332	0.004218 0.002365	-7.2 -3.3
PT 25	0.3755 151.7 -5.0	0.8236 682.6 12.0	0.074020 -0.000293 0.0022	0.006220 0.000000	-0.003693 -0.000563	0.005656 0.002776	-7.5 -4.0
PT 26	0.3738 151.6 -5.0	0.8267 685.4 14.0	0.088880 -0.000235 0.0022	0.008140 0.000000	-0.004865 -0.000942	0.007338 0.003507	-7.6 -5.0
PT 27	0.3735 151.5 -5.0	0.8272 685.4 16.0	0.100350 0.000272 0.0022	0.009970 0.000000	-0.005549 -0.001560	0.009593 0.004863	-8.8 -6.0
PT 28	0.3727 151.3 -5.0	0.8281 685.9 15.0	0.094990 0.000009 0.0022	0.009290 0.000000	-0.005250 -0.001292	0.008590 0.004223	-8.4 -5.6
PT 29	0.3738 151.4 0.0	0.8271 684.5 0.0	-0.005290 0.000053 0.0022	-0.002030 0.000000	-0.000825 0.000100	0.001281 0.002036	1.9 -1.7
PT 30	0.3752 151.3 0.0	0.8246 681.7 2.0	0.013010 0.000121 0.0022	-0.001780 0.000000	-0.000909 0.000185	0.001231 0.001881	0.5 -3.5
PT 31	0.3734 151.2 0.0	0.8269 684.5 4.0	0.030660 0.000154 0.0022	-0.001460 0.000000	-0.001223 0.000125	0.001415 0.001867	0.2 -4.9

SWEPT/TAPERED TIP	V/DOR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 32	0.3752 151.1 0.0	0.8243 680.8 6.0	0.046060 0.000054 0.0022	-0.001070 0.000000	-0.001764 0.000070	0.001746 0.001937	0.5 -4.5
PT 33	0.3738 151.0 0.0	0.8264 682.6 8.0	0.063450 0.000077 0.0022	-0.000660 0.000000	-0.002882 -0.000057	0.002377 0.002111	-0.3 -4.3
PT 34	0.3738 151.1 0.0	0.8270 683.1 10.0	0.080000 -0.000017 0.0022	-0.000100 0.000000	-0.004039 -0.000119	0.003161 0.002559	-0.8 -4.1
PT 35	0.3731 150.6 0.0	0.8254 682.2 12.0	0.095450 -0.000092 0.0022	0.000590 0.000000	-0.003568 -0.000212	0.004765 0.003482	-1.4 -4.1
1 RUN 20 PT 6	0.3653 143.3 -3.0	0.8080 663.0 12.5	0.088860 -0.000185 0.0023	0.005290 0.000000	-0.004908 -0.000484	0.005646 0.002907	-13.9 1.4
RUN 21 PT 3	0.3764 148.2 0.0	0.8255 665.3 12.0	0.096540 -0.000008 0.0023	0.000450 0.000000	-0.005824 -0.000180	0.004739 0.003643	-5.7 -3.7
PT 4	0.3786 148.7 0.0	0.8220 664.0 13.0	0.102940 -0.000105 0.0023	0.001050 0.000000	-0.006518 -0.000297	0.005928 0.004483	-6.7 -4.0
PT 5	0.3753 148.9 -10.0	0.8263 670.4 12.0	0.090650 -0.000362 0.0023	0.008120 0.000000	-0.001779 -0.001146	0.005673 0.002371	-13.7 -3.3
PT 6	0.3770 149.7 -10.0	0.8264 670.9 14.0	0.066980 -0.000305 0.0023	0.011510 0.000000	-0.002971 -0.001631	0.007616 0.002831	-15.2 -3.8
PT 7	0.3740 149.3 -10.0	0.8278 673.2 16.0	0.082460 0.000194 0.0023	0.014440 0.000000	-0.003684 -0.002203	0.009637 0.003545	-16.7 -4.8

SHEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 8	0.3746 149.3 -10.0	0.8267 673.4 15.0	0.075920 -0.000112 0.0023	0.013120 0.000000	-0.003243 -0.001877	0.008612 0.003123	-15.8 -4.2
PT 9	0.3757 149.0 -10.0	0.8218 670.4 10.0	0.032800 -0.000234 0.0022	0.004600 0.000000	-0.001442 -0.000698	0.003942 0.002106	-12.2 -2.9
PT 10	0.3753 149.9 -10.0	0.8272 674.8 15.0	0.075340 -0.000165 0.0022	0.013230 0.000000	-0.003236 -0.001891	0.008647 0.003118	-16.0 -4.2
RUN 54 PT 13	0.3836 152.9 -4.6	0.8139 673.6 13.4	0.077000 -0.001086 0.0022	0.007930 0.000000	-0.002894 -0.000408	0.006653 0.003034	-18.0 5.3
1 RUN 55 PT 18	0.3766 150.2 -5.0	0.8302 674.1 14.0	0.071710 -0.001997 0.0023	0.010130 0.000000	-0.002929 -0.000812	0.007376 0.003049	-19.0 3.7
PT 19	0.3776 150.5 -5.0	0.8286 673.6 11.0	0.079940 0.000873 0.0023	0.001810 0.000000	-0.005287 -0.000589	0.003793 0.002477	-12.0 1.7

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1E 2E

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 17							
PT 3	0.4004 159.1 0.0	0.8415 671.3 0.0	-0.001950 0.000024 0.00023	-0.002150 0.000000	-0.001392 0.000146	0.001306 0.002165	3.2 -2.8
PT 4	0.4026 159.7 0.0	0.8393 670.4 2.0	0.013840 -0.000107 0.00023	-0.001950 0.000000	-0.001492 0.000125	0.001217 0.001983	1.7 -2.6
PT	0.4019 160.4 0.0	0.8416 674.3 4.0	0.031480 0.000037 0.00022	-0.001680 0.000000	-0.002201 0.000187	0.001275 0.001937	0.2 -2.7
PT 6	0.4004 160.4 0.0	0.8433 677.1 6.0	0.047380 -0.000038 0.00022	-0.001690 0.000000	-0.002650 0.000092	0.001591 0.002057	-1.3 -2.6
PT 7	0.3999 160.3 0.0	0.8436 677.6 8.0	0.064550 -0.000041 0.00022	-0.001420 0.000000	-0.003726 0.000078	0.002086 0.002264	-3.2 -2.8
PT 8	0.4011 160.6 0.0	0.8424 676.6 10.0	0.080560 -0.000073 0.00022	-0.000880 0.000000	-0.004886 0.000062	0.002942 0.002690	-5.0 -2.9
PT 9	0.4001 160.2 0.0	0.8418 676.6 11.0	0.087750 -0.000091 0.00022	-0.000650 0.000000	-0.005301 -0.000046	0.003559 0.003099	-5.7 -3.1
PT 10	0.4011 160.7 0.0	0.8422 677.1 12.0	0.094960 -0.000148 0.00022	0.000170 0.000000	-0.006123 -0.000211	0.004659 0.003749	-6.7 -3.5
PT 11	0.4019 161.2 -5.0	0.8399 678.0 8.0	0.038240 -0.000328 0.00022	0.001540 0.000000	-0.001652 -0.000268	0.003040 0.002286	-7.4 -2.5

SWEPT/TAPERED TIP	V/OR VKTS ALFS, U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 12	0.4086 164.6 -5.0	0.8320 680.8 8.0	0.056350 -0.000493 0.0021	0.003520 0.000000	-0.002591 -0.000507	0.004295 0.002566	-9.2 -2.9
PT 13	0.4008 161.2 -5.0	0.8415 679.9 12.0	0.071920 -0.000344 0.0022	0.005330 0.000000	-0.003682 -0.000712	0.005460 0.002839	-10.9 -3.4
PT 14	0.4020 161.5 -5.0	0.8411 678.9 13.0	0.078050 -0.000470 0.0022	0.006170 0.000000	-0.004271 -0.000846	0.006141 0.003094	-11.6 -3.6
PT 15	0.4027 161.6 -5.0	0.8396 678.0 14.0	0.084870 -0.000595 0.0022	0.007280 0.000000	-0.004675 -0.001046	0.007223 0.003624	-12.4 -4.0
PT 16	0.4031 161.9 -5.0	0.8402 678.9 15.0	0.092310 -0.000272 0.0022	0.007960 0.000000	-0.005244 -0.001336	0.008402 0.004403	-13.0 -4.4
RUN 19 PT 3	0.4009 158.9 -5.0	0.8409 670.0 8.0	0.036630 0.000044 0.0023	0.001700 0.000000	-0.001434 -0.000033	0.003017 0.002208	-7.1 -2.5
PT 4	0.4011 159.3 -5.0	0.8420 671.3 10.0	0.052270 -0.000045 0.0023	0.003420 0.000000	-0.002383 -0.000286	0.004059 0.002432	-8.8 -3.0
PT 5	0.4025 159.7 -5.0	0.8384 670.4 15.0	0.090070 -0.000029 0.0022	0.007980 0.000000	-0.004871 -0.001050	0.008250 0.004285	-12.6 -4.5
PT 6	0.4013 160.1 -5.0	0.8413 674.3 14.5	0.069870 -0.001453 0.0022	0.009870 0.000000	-0.002044 -0.000910	0.007868 0.003453	-13.6 -3.3
PT 7	0.4009 160.8 -5.0	0.8432 678.0 11.0	0.077730 0.001145 0.0022	0.001770 0.000000	-0.004543 -0.000457	0.003967 0.002692	-6.3 -4.7

	SWEPT/TAPERED TYP	V/OR VKTS ALFS, U	MAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPD/S	ALFC AI
PT 8	0.4011 161.1 -5.0	0.8421 678.9 13.0	0.076890 -0.000206 0.0022	0.006320 0.000000	-0.003673 -0.000643	0.006187 0.003103	-5.1 -3.8	
PT 9	0.4012 161.0 0.0	0.8410 678.0 13.0	0.097440 -0.000016 0.0022	0.001120 0.000000	-0.006250 -0.000166	0.005610 0.004277	3.9 -3.7	
PT 10	0.4008 161.3 0.0	0.8421 680.3 14.0	0.103660 -0.000050 0.0022	0.001710 0.000000	-0.006491 -0.000290	0.007027 0.005337	3.9 -3.7	
PT 11	0.4021 161.8 -7.5	0.8407 679.9 12.0	0.055470 -0.000256 0.0022	0.005610 0.000000	-0.002060 -0.000710	0.005668 0.002724	-3.7 -3.7	
PT 12	0.4031 162.1 -7.5	0.8400 679.4 13.0	0.063920 -0.000232 0.0022	0.007950 0.000000	-0.002714 -0.001024	0.006532 0.002949	-7.6 -4.1	
PT 13	0.4014 161.9 -7.5	0.8417 681.7 14.0	0.071430 -0.000210 0.0022	0.009260 0.000000	-0.003027 -0.001266	0.007375 0.003185	-12.1 -4.9	
PT 14	0.4009 162.3 -7.5	0.8427 684.0 15.0	0.078120 -0.000083 0.0022	0.010610 0.000000	-0.003259 -0.001539	0.008458 0.003637	-11.8 -5.3	
PT 15	0.4014 162.4 -7.5	0.8425 683.5 16.0	0.086130 0.000248 0.0022	0.012000 0.000000	-0.003927 -0.001902	0.009584 0.004076	-10.2 -5.1	
PT 16	0.4005 162.4 -7.5	0.8441 685.4 17.0	0.090260 0.000544 0.0022	0.012520 0.000000	-0.003892 -0.002299	0.009643 0.003868	-10.4 -5.3	
PT 17	0.4004 161.7 6.0	0.8399 682.6 0.0	0.028180 0.000650 0.0022	-0.005000 0.000000	-0.002339 0.000265	0.000162 0.002091	5.3 -2.5	

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHJ1J0	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 18	0.4004 162.3 6.0	0.8428 684.9 2.0	0.042670 0.000565 0.0022	-0.006180 0.000000	-0.002767 0.000231	-0.000256 0.0002049	4.3 -1.0
PT 19	0.4021 162.6 6.0	0.8413 683.5 4.0	0.058000 0.000477 0.0022	-0.007320 0.000000	-0.003367 0.000231	-0.000426 0.0002204	4.2 -2.3
PT 20	0.4012 162.5 6.0	0.8411 684.5 6.0	0.075350 0.000601 0.0022	-0.008700 0.000000	-0.004252 0.000156	-0.000425 0.0002537	3.8 -1.9
PT 21	0.4006 162.6 6.0	0.8425 685.9 8.0	0.089450 0.000530 0.0022	-0.009200 0.000000	-0.005064 0.000102	0.000106 0.0003046	3.3 -3.4
PT 11	0.4007 160.1 -10.0	0.8420 675.3 10.0	0.028080 -0.000332 0.0022	0.003290 0.000000	-0.001374 -0.000708	0.003757 0.0002366	-12.2 -2.6
PT 12	0.3998 160.0 -10.0	0.8418 676.2 12.0	0.044480 -0.000302 0.0022	0.006800 0.000000	-0.001304 -0.001230	0.005487 0.0002584	-13.9 -3.0
PT 13	0.4014 160.6 -10.0	0.8412 676.2 14.0	0.060970 -0.000330 0.0022	0.010190 0.000000	-0.001748 -0.001657	0.007443 0.0003008	-15.5 -3.4
PT 14	0.4007 160.6 -10.0	0.8425 677.6 15.0	0.068650 -0.000304 0.0022	0.011860 0.000000	-0.002271 -0.002020	0.008521 0.0003328	-16.4 -4.0
RUN 22 PT 18	0.4046 162.0 -9.0	0.8410 676.2 11.3	0.061410 0.000802 0.0022	0.005200 0.000000	-0.003269 -0.000953	0.005062 0.0002607	-13.4 -1.4
PT 19	0.4037 163.3 -9.0	0.8431 683.5 13.2	0.075590 0.000725 0.0022	0.007150 0.000000	-0.004360 -0.001321	0.006443 0.0003029	-15.0 -1.6

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMV/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 20	0.4015 163.2 -9.0	0.8449 686.8 11.8	0.064990 0.000650 0.0022	0.005840 0.000000	-0.003325 -0.001188	0.005456 0.002719	-14.0 -1.3
PT 21	0.4029 163.1 -9.0	0.8424 684.0 12.0	0.067960 0.000698 0.0022	0.005700 0.000000	-0.000758 -0.000422	0.005527 0.002801	-13.5 0.5
PT 22	0.4032 163.5 -7.0	0.8435 685.4 5.4	0.055400 0.000728 0.0022	0.002470 0.000000	-0.003283 -0.000539	0.003714 0.002435	-10.3 -1.0
PT 23	0.4085 164.2 -7.0	0.8371 679.4 11.6	0.074090 0.000926 0.0021	0.003850 0.000000	-0.004076 -0.000926	0.004911 0.002855	-12.1 -1.4
PT 24	0.4036 164.1 -7.0	0.8437 687.2 11.2	0.070910 0.000731 0.0021	0.003500 0.000000	-0.001081 -0.000082	0.004671 0.002794	-11.4 0.7
RUN 53 PT 3	0.3883 155.0 -4.6	0.8255 674.6 13.3	0.072820 -0.001122 0.0022	0.007510 0.000000	-0.003555 -0.000221	0.006492 0.003065	-18.2 4.7
PT 4	0.3878 155.0 -4.6	0.8256 675.5 13.4	0.074120 -0.001100 0.0022	0.007480 0.000000	-0.003687 -0.000185	0.006548 0.003117	-18.2 4.7
PT 5	0.3904 155.5 -4.6	0.8228 673.2 13.4	0.060580 -0.002174 0.0022	0.008680 0.000000	-0.002567 -0.000361	0.006738 0.002998	-20.2 5.6
PT 6	0.3894 155.4 -4.6	0.8231 674.6 13.4	0.088270 0.000037 0.0022	0.005360 0.000000	-0.005099 -0.000144	0.006202 0.003365	-16.5 3.9
PT 7	0.3924 156.1 -4.6	0.8206 672.3 13.4	0.076380 -0.001016 0.0022	0.007030 0.000000	-0.000826 0.000586	0.006509 0.003193	-17.6 6.8

SHEET/TAPERED TIP		V/OR VKTS ALFS,U	NAT OMEGA-R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMR/S	CP/S CPD/S	ALFC AI
PT	8	0.3916 156.3 -4.6	0.8222 674.6 13.4	0.074020 -0.001056 0.0022	0.007760 0.000000	-0.005961 -0.000941	0.006675 0.003114	-19.0 3.1
PT	9	0.3918 156.4 -4.6	0.8215 674.6 13.4	0.075980 -0.000972 0.0022	0.007330 0.000000	-0.003743 -0.000195	0.006582 0.003158	-18.1 4.6
RUN 54								
PT	3	0.3866 154.7 -4.6	0.8283 676.4 13.4	0.075310 -0.001132 0.0022	0.007700 0.000000	-0.002904 -0.000443	0.006637 0.003113	-18.1 5.6
PT	4	0.3864 155.1 -4.6	0.8289 678.2 14.4	0.089170 -0.000652 0.0022	0.007820 0.000000	-0.003509 -0.000346	0.007472 0.003679	-18.2 5.1
PT	5	0.3883 155.2 -4.6	0.8259 675.5 12.4	0.061450 -0.001436 0.0022	0.007100 0.000000	-0.002404 -0.000452	0.005932 0.002811	-18.2 5.8
PT	6	0.3886 155.3 -6.6	0.8261 675.5 13.4	0.066160 -0.001218 0.0022	0.008660 0.000000	-0.002373 -0.000540	0.006702 0.002916	-20.2 5.7
PT	7	0.3908 156.2 -2.6	0.8266 675.5 13.4	0.087540 -0.000679 0.0022	0.005260 0.000000	-0.003758 -0.000046	0.006202 0.003412	-16.0 5.1
PT	8	0.3911 155.8 -4.6	0.8232 673.2 13.4	0.074710 -0.001125 0.0022	0.007450 0.000000	-0.002983 -0.000347	0.006562 0.003115	-18.2 5.5
PT	9	0.3897 155.9 -4.6	0.8250 675.9 13.4	0.075220 -0.000901 0.0022	0.007430 0.000000	-0.000525 0.000101	0.006475 0.003036	-17.9 5.4
PT	10	0.3913 156.2 -4.6	0.8227 674.6 13.4	0.073890 -0.000635 0.0022	0.007690 0.000000	-0.005422 -0.000999	0.006655 0.003124	-18.5 5.5

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	NAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 11	0.3932 156.5 -4.6	0.8201 672.7 13.4	0.075840 -0.001041 0.0022	0.007690 0.000000	-0.002968 -0.0000462	0.006631 0.003061	-18.1 5.2
PT 12	0.4011 160.3 -4.6	0.8277 675.5 13.4	0.073320 -0.001056 0.0022	0.007240 0.000000	-0.003092 -0.0000498	0.006554 0.003149	-18.2 5.2
RUN 63 PT 7	0.4007 159.4 -7.6	0.8421 672.3 12.0	0.054600 -0.000289 0.0023	0.006480 0.000000	-0.002959 -0.0000878	0.005574 0.002701	-20.3 9.5
PT 8	0.4001 159.7 -6.3	0.8431 674.6 14.3	0.079320 -0.000533 0.0022	0.008580 0.000000	-0.004174 -0.001162	0.007465 0.003443	-21.5 8.7
PT 10	0.4028 160.4 -5.0	0.8406 673.2 10.0	0.049540 -0.000419 0.0022	0.003220 0.000000	-0.002169 -0.0000420	0.004043 0.002577	-17.0 9.9
PT 11	0.3991 160.5 -5.0	0.8448 679.6 12.0	0.069120 -0.000253 0.0022	0.005280 0.000000	-0.003452 -0.0000665	0.005443 0.002889	-18.7 9.3
PT 12	0.3998 160.7 -5.0	0.8447 679.2 14.0	0.084280 -0.000441 0.0022	0.007240 0.000000	-0.004680 -0.0000955	0.007136 0.003576	-20.4 8.3
PT 13	0.4005 160.8 -5.0	0.8445 678.7 15.0	0.073390 -0.001975 0.0022	0.010390 0.000000	-0.002499 -0.001019	0.008351 0.003687	-19.8 9.7

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
18 2E

SWEPT/TAPERED TIP	V/DR VKTS	MAT OMEGA* R	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 55							
PT 9	0.2499 107.6 0.0	0.8133 727.8 6.0	0.056730 -0.000347 0.0023	-0.000780 0.000000	-0.001810 -0.000127	0.001638 0.001352	-4.2 2.5
PT 12	0.2492 107.2 -5.0	0.8133 726.9 8.0	0.058470 -0.000557 0.0023	0.004440 0.000000	-0.001940 -0.000501	0.003143 0.001525	-10.2 2.4
PT 13	0.2495 107.4 -5.0	0.8141 727.3 10.0	0.077550 -0.000673 0.0023	0.006210 0.000000	-0.003116 -0.000771	0.004219 0.001769	-11.5 1.9
PT 14	0.2494 107.6 -5.0	0.8161 729.2 12.0	0.097190 -0.000718 0.0023	0.007780 0.000000	-0.004573 -0.000847	0.005558 0.002202	-12.6 1.4
PT 15	0.2506 107.6 0.0	0.8119 725.5 6.0	0.057080 -0.000195 0.0023	-0.000760 0.000000	-0.001948 -0.000087	0.001660 0.001366	-4.2 2.4
PT 16	0.2500 107.7 0.0	0.8141 727.8 8.0	0.077630 -0.000140 0.0023	-0.000900 0.000000	-0.002852 -0.000142	0.002194 0.001518	-5.2 2.1
PT 17	0.2501 107.6 0.0	0.8137 727.3 10.0	0.098530 -0.000294 0.0023	-0.001030 0.000000	-0.004528 -0.000238	0.003033 0.001841	-6.4 1.6

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DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2F

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEGA* THETA	CLR/S CMY/S RH0100	CXR/S CMZ/S	CVR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 21							
PT 16	0.3758 163.2 0.0	0.8941 734.0 0.0	-0.001370 0.000033 0.00022	-0.002270 0.000000	-0.000918 0.000083	0.001425 0.002278	3.4 -2.9
PT 17	0.3756 163.5 0.0	0.8953 735.8 2.0	0.014780 -0.000080 0.00022	-0.002060 0.000000	-0.001011 0.000092	0.001339 0.002092	1.9 -2.8
PT 18	0.3760 163.9 0.0	0.8958 736.8 4.0	0.031310 -0.000093 0.00022	-0.001850 0.000000	-0.001251 0.000038	0.001471 0.002068	0.5 -2.9
PT 19	0.3758 163.9 0.0	0.8954 737.2 6.0	0.048850 -0.000148 0.00022	-0.001600 0.000000	-0.001905 -0.000008	0.001752 0.002116	-1.0 -2.9
PT 20	0.3764 164.2 0.0	0.8950 737.2 8.0	0.066820 -0.000112 0.00022	-0.001360 0.000000	-0.003004 -0.000065	0.002267 0.002334	-2.4 -3.1
PT 21	0.3766 164.1 0.0	0.8940 736.3 8.0	0.083560 -0.000144 0.00022	-0.000810 0.000000	-0.004075 -0.000165	0.003322 0.002932	-4.0 -3.3
PT 22	0.3748 164.1 0.0	0.8972 740.0 11.0	0.091680 -0.000054 0.00022	-0.000520 0.000000	-0.004830 -0.000128	0.004002 0.003358	-4.7 -3.5
PT 23	0.3766 164.2 0.0	0.8946 736.8 11.5	0.094730 -0.000103 0.00022	0.000010 0.000000	-0.005411 -0.000167	0.004593 0.003698	-5.4 -3.7
PT 24	0.3769 164.3 -5.0	0.8939 736.8 8.0	0.040230 -0.000358 0.00022	0.001750 0.000000	-0.001016 -0.000465	0.003186 0.002367	-6.6 -2.9

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEGA#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 25	0.3753 164.0 -5.0	0.8951 738.6 10.0	0.060020 -0.000223 0.0022	0.003680 0.000000	-0.001974 -0.000634	0.004352 0.002614	-8.0 -3.1
PT 26	0.3751 164.3 -5.0	0.8963 740.5 12.0	0.076630 -0.000223 0.0022	0.005470 0.000000	-0.003074 -0.000911	0.005788 0.003151	-9.6 -3.5
PT 27	0.3762 164.5 -5.0	0.8954 739.1 13.0	0.084630 -0.000179 0.0022	0.006370 0.000000	-0.003478 -0.001086	0.006734 0.003625	-10.2 -3.9
PT 28	0.3764 164.5 -5.0	0.8950 738.6 14.0	0.091360 0.000067 0.0022	0.007340 0.000000	-0.003858 -0.001304	0.007891 0.004300	-11.1 -4.4
PT 29	0.3765 164.5 -5.0	0.8951 738.6 14.5	0.093480 0.000214 0.0022	0.007740 0.000000	-0.004184 -0.001296	0.008442 0.004661	-11.6 -4.5
PT 30	0.3778 164.7 -5.0	0.8920 736.8 11.0	0.050330 -0.001516 0.0022	0.005850 0.000000	-0.000707 -0.000748	0.005215 0.002755	-10.7 -2.0
PT 31	0.3757 165.2 -5.0	0.8976 743.2 12.0	0.052290 -0.001946 0.0022	0.007380 0.000000	-0.000382 -0.000897	0.006023 0.002979	-12.2 -1.8
PT 32	0.3753 165.1 -10.0	0.8970 743.4 12.0	0.050900 -0.000189 0.0022	0.007460 0.000000	-0.000771 -0.001422	0.005956 0.002899	-13.4 -3.3
PT 33	0.3769 165.5 -10.0	0.8965 742.3 13.0	0.059770 -0.000061 0.0022	0.009220 0.000000	-0.001097 -0.001848	0.007000 0.003172	-14.2 -3.6
PT 34	0.3757 165.1 -10.0	0.8962 742.8 14.0	0.067750 0.000115 0.0022	0.010700 0.000000	-0.001074 -0.002078	0.008007 0.003530	-15.0 -3.9

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 35	0.3748 165.3 -10.0	0.8989 745.3 15.0	0.076670 0.000164 0.0022	0.012260 0.000000	-0.001374 -0.002412	0.009017 0.003834	-15.6 -4.4
PT 36	0.3759 165.1 -10.0	0.8958 742.3 15.5	0.081270 0.000085 0.0022	0.012980 0.000000	-0.001209 -0.002590	0.009188 0.003653	-15.9 -4.4
PT 37	0.3755 164.8 -10.0	0.8950 741.8 10.0	0.033290 -0.000252 0.0022	0.003950 0.000000	-0.000447 -0.000994	0.004066 0.002472	-11.7 -2.9
RUN 55 PT 22	0.3742 161.7 -5.0	0.8999 730.1 10.0	0.054490 -0.000562 0.0023	0.003640 0.000000	-0.002906 -0.000366	0.004213 0.002554	-13.5 3.7
PT 23	0.3759 162.1 -5.0	0.8976 728.7 12.0	0.074590 -0.000589 0.0023	0.005780 0.000000	-0.004199 -0.000616	0.005772 0.003048	-15.2 3.0
PT 25	0.3744 161.9 -5.0	0.8970 731.0 13.0	0.081520 -0.000681 0.0022	0.006800 0.000000	-0.004323 -0.000856	0.006595 0.003385	-16.0 2.8
PT 26	0.3754 162.7 -5.0	0.8985 732.4 10.0	0.073440 0.000854 0.0022	0.001010 0.000000	-0.004177 -0.000463	0.003498 0.002581	-11.1 2.2
PT 27	0.3749 163.1 -5.0	0.8998 735.2 14.0	0.074140 -0.001903 0.0022	0.010320 0.000000	-0.002423 -0.001072	0.007914 0.003498	-19.1 3.8
RUN 63 PT 14	0.3675 160.4 -5.0	0.8959 737.5 8.0	0.037530 -0.000490 0.0022	0.001900 0.000000	-0.001366 -0.000366	0.003101 0.002259	-14.7 9.6
PT 15	0.3701 160.8 -5.0	0.8937 734.2 10.0	0.057930 -0.000270 0.0022	0.003820 0.000000	-0.002446 -0.000478	0.004283 0.002531	-16.3 9.4

SHEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 16	0.3697 160.9 -5.0	0.6935 735.6 11.0	0.066620 -0.000266 0.0022	0.004970 0.000000	-0.002897 -0.000576	0.005006 0.002721	-17.3 9.2
PT 17	0.3650 160.8 -5.0	0.9011 744.4 12.0	0.074940 -0.000459 0.0022	0.005850 0.000000	-0.003566 -0.000731	0.005710 0.002999	-18.1 8.6
PT 18	0.3676 160.8 -5.0	0.8966 739.3 12.5	0.079870 -0.000492 0.0022	0.006490 0.000000	-0.003958 -0.000794	0.006235 0.003199	-18.4 8.8

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
ID 2H

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPU/S	ALFC AI
RUN 55							
PT 28	0.3761 170.2 -5.0	0.9374 764.6 8.0	0.037930 -0.000426 0.0022	0.001270 0.000000	-0.001459 -0.000236	0.003359 0.002737	-11.1 4.0
PT 29	0.3753 170.4 -5.0	0.9385 767.4 10.0	0.055380 -0.000454 0.0022	0.002920 0.000000	-0.002348 -0.000418	0.004472 0.003069	-12.4 3.8
PT 30	0.3767 170.5 -5.0	0.9366 765.1 11.0	0.065180 -0.000562 0.0022	0.003880 0.000000	-0.003308 -0.000565	0.005172 0.003289	-13.2 3.1
PT 31	0.3767 170.7 -5.0	0.9369 766.0 12.0	0.073110 -0.000540 0.0022	0.004820 0.000000	-0.003523 -0.000672	0.005954 0.003606	-14.0 3.0
PT 34	0.3740 169.6 -7.5	0.9400 766.5 11.5	0.055870 -0.000530 0.0022	0.005860 0.000000	-0.003027 -0.000834	0.005795 0.003292	-15.8 3.2
PT 35	0.3752 170.5 -7.5	0.9408 767.9 13.0	0.068610 -0.000545 0.0022	0.005870 0.000000	-0.001409 -0.003106	0.007092 0.004046	-16.6 2.8
PT 36	0.3767 170.7 -2.5	0.9378 766.0 8.0	0.050170 -0.000397 0.0022	0.000340 0.000000	-0.002306 -0.000154	0.003089 0.002710	-9.2 3.7
PT 37	0.3749 170.7 -2.5	0.9411 769.7 10.0	0.070430 -0.000364 0.0022	0.001160 0.000000	-0.003548 -0.000150	0.004138 0.003206	-10.6 3.4
PT 38	0.3737 170.7 -2.5	0.9422 772.0 11.0	0.077640 -0.000533 0.0022	0.001660 0.000000	-0.004224 -0.000260	0.004771 0.003548	-11.3 3.0

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 39	0.3762 171.3 -2.5	0.9393 769.7 9.0	0.058970 -0.000512 0.0022	0.000610 0.000000	-0.002951 -0.000186	0.003466 0.002891	-9.8 3.7
PT 40	0.3732 171.1 -2.5	0.9434 774.8 11.0	0.077590 -0.000516 0.0022	0.001640 0.000000	-0.004001 -0.000173	0.004703 0.003486	-11.3 3.2
PT 41	0.3751 171.2 -2.5	0.9399 771.6 11.5	0.081800 -0.000544 0.0022	0.002090 0.000000	-0.004301 -0.000242	0.005139 0.003689	-11.9 3.1

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DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
18 2G

SWEPT/TAPERED TIP	V/OR VKTS	MAT OMEGA* R	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 55							
PT 3	0.2503 115.4 -5.0	0.8746 778.9 8.0	0.058280 -0.000517 0.0023	0.004250 0.000000	-0.002068 -0.000492	0.003192 0.001622	-10.3 2.4
PT 4	0.2496 115.2 -5.0	0.8757 780.3 10.0	0.077010 -0.000660 0.0023	0.006120 0.000000	-0.003172 -0.000707	0.004336 0.001921	-11.6 2.1
PT 5	0.2494 115.3 -5.0	0.8757 781.2 12.0	0.098580 -0.000683 0.0023	0.007700 0.000000	-0.004446 -0.000972	0.006098 0.002721	-12.7 1.6
PT 6	0.2498 115.6 0.0	0.8762 782.4 6.0	0.057370 -0.000271 0.0023	-0.000760 0.000000	-0.002323 -0.000197	0.001740 0.001438	-4.4 2.1
PT 7	0.2497 115.7 0.0	0.8766 782.8 8.0	0.079470 -0.000217 0.0023	-0.000960 0.000000	-0.003336 -0.000139	0.002372 0.001667	-5.4 2.0
PT 8	0.2499 115.8 0.0	0.8759 782.8 10.0	0.100040 -0.000280 0.0023	-0.000900 0.000000	-0.004898 -0.000229	0.003452 0.002181	-6.8 1.7

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
ID 21

SNEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 56							
PT 3	0.3772 174.7 -5.0	0.9653 782.8 10.0	0.053020 -0.000960 0.0022	0.001030 0.000000	-0.002050 -0.000483	0.004848 0.004192	-12.2 4.0
PT 4	0.3768 175.4 -5.0	0.9658 786.5 12.0	0.070670 -0.001157 0.0022	0.002600 0.000000	-0.003131 -0.000627	0.006288 0.004811	-14.0 3.9
PT 5	0.3738 175.1 -5.0	0.9690 791.6 13.0	0.076260 -0.001343 0.0022	0.003510 0.000000	-0.003737 -0.000839	0.007130 0.005205	-14.8 3.5
PT 6	0.3745 175.6 -5.0	0.9689 792.5 13.5	0.083090 -0.001319 0.0022	0.003720 0.000000	-0.003571 -0.000851	0.007557 0.005474	-15.0 3.4
PT 7	0.3740 175.8 -5.0	0.9699 794.4 11.0	0.061720 -0.001073 0.0022	0.001700 0.000000	-0.002664 -0.000584	0.005468 0.004449	-13.1 4.0
PT 8	0.3758 176.0 -2.5	0.9659 791.6 8.0	0.049430 -0.000613 0.0022	-0.000890 0.000000	-0.002183 0.000000	0.003426 0.003518	-9.4 4.7
PT 9	0.3759 176.4 -2.5	0.9668 793.0 10.0	0.065830 -0.000711 0.0022	-0.000040 0.000000	-0.003233 -0.000169	0.004523 0.004106	-10.7 4.4
PT 10	0.3751 176.5 -2.5	0.9663 795.3 12.0	0.083220 -0.000873 0.0022	0.000610 0.000000	-0.004157 -0.000234	0.005730 0.004809	-12.1 3.9
PT 11	0.3737 176.6 -2.5	0.9683 798.5 12.5	0.087900 -0.000999 0.0022	0.001030 0.000000	-0.004364 -0.000297	0.006252 0.005093	-12.4 3.6

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1A 2B

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 48							
PT 4	0.2020 81.2 -5.0	6.7180 679.6 8.0	0.064210 0.000074 0.0023	0.004360 0.000000	-0.002175 -0.000453	0.002249 0.000604	-9.9 2.4
PT 5	0.2001 80.7 -5.0	0.7193 681.9 10.0	0.086480 -0.000067 0.0023	0.005900 0.000000	-0.003752 -0.000673	0.004324 0.001748	-10.0 2.6
PT 6	0.2005 80.7 -5.0	6.7181 680.6 12.0	0.106450 -0.000236 0.0023	0.007470 0.000000	-0.005197 -0.000879	0.005976 0.002286	-9.4 2.6
PT 7	0.1995 80.6 -5.0	0.7199 682.9 13.0	0.117910 -0.000230 0.0023	0.008140 0.000000	-0.006079 -0.000998	0.006936 0.002707	-9.1 2.4
PT 8	0.1987 80.2 -5.0	6.7189 682.4 13.5	0.120680 -0.000317 0.0023	0.008990 0.000000	-0.006224 -0.001045	0.007394 0.002868	-11.6 2.0
PT 9	0.2003 80.9 -2.5	0.7199 682.4 6.0	0.049250 0.000151 0.0023	0.001300 0.000000	-0.001488 -0.000152	0.002030 0.001317	-7.3 0.6
PT 10	0.2004 80.6 -2.5	0.7175 680.1 8.0	0.072490 0.000079 0.0023	0.001930 0.000000	-0.002439 -0.000270	0.002817 0.001450	-7.8 1.7
PT 11	0.1998 80.6 -2.5	0.7186 681.5 10.0	0.095490 0.000111 0.0023	0.002560 0.000000	-0.003732 -0.000431	0.003957 0.001780	-8.0 2.5
PT 12	0.1994 80.7 -2.5	0.7213 684.2 11.0	0.106290 0.000088 0.0023	0.002630 0.000000	-0.004875 -0.000465	0.004680 0.002038	-8.3 1.8

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SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHJ100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 13	0.2000 80.9 -2.5	0.7212 683.8 12.0	0.116040 -0.000041 0.0023	0.002980 0.000000	-0.005589 -0.000518	0.005538 0.002427	-8.9 1.5
PT 14	0.1999 80.8 -2.5	0.7206 683.3 13.0	0.125130 -0.000020 0.0023	0.003240 0.000000	-0.006542 -0.000638	0.006566 0.002991	-9.8 1.1
PT 17	0.1999 80.6 -5.0	0.7182 681.0 6.0	0.043220 -0.000115 0.0023	0.002910 0.000000	-0.001242 -0.000260	0.002251 0.001319	-11.2 2.8
PT 18	0.2001 80.7 0.0	0.7193 681.9 0.0	-0.007210 0.000221 0.0023	-0.001000 0.000000	-0.000530 0.000067	0.001261 0.001452	-1.6 3.1
PT 19	0.2001 80.8 0.0	0.7198 682.4 2.0	0.016180 0.000349 0.0023	-0.000780 0.000000	-0.000759 0.000043	0.001150 0.001258	-5.5 0.6
PT 20	0.1996 80.8 0.0	0.7209 683.8 4.0	0.039450 0.000449 0.0023	-0.000920 0.000000	-0.001123 0.000012	0.001311 0.001202	-6.4 2.3
PT 21	0.2005 80.8 0.0	0.7191 681.5 6.0	0.061100 0.000462 0.0023	-0.001140 0.000000	-0.001993 -0.000098	0.001744 0.001277	-6.2 2.0
PT 22	0.2002 80.7 0.0	0.7184 681.0 8.0	0.084390 0.000302 0.0023	-0.001340 0.000000	-0.003088 -0.000124	0.002548 0.001486	-4.7 1.2
PT 23	0.2001 80.9 0.0	0.7210 682.9 10.0	0.105940 0.000335 0.0023	-0.002040 0.000000	-0.004791 -0.000280	0.003508 0.001819	-5.2 1.3
PT 24	0.2002 80.6 0.0	0.7185 680.6 11.0	0.117320 0.000255 0.0023	-0.002580 0.000000	-0.005650 -0.000328	0.004127 0.002073	-5.6 1.2

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO:30	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 25	0.2005 80.8 0.0	0.7192 681.0 12.0	3.127110 3.030227 0.0023	-0.002740 0.000000	-0.006110 -0.000299	0.005034 0.002571	-6.2 1.2

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
IC 2D

SWEPT TIP	V/OR VKTS ALFS+U	MAT CMEG+R TFETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPD/S	ALFC A1
RUN 49							
PT 3	0.3007 119.9 -5.0	0.7792 674.1 6.0	0.029980 -0.000423 0.0023	0.001400 0.000000	-0.000999 -0.000533	0.002145 0.001611	-8.7 2.6
PT 4	0.3007 120.0 -5.0	0.7798 674.6 8.0	0.054390 -0.000416 0.0023	0.003590 0.000000	-0.001817 -0.000688	0.003161 0.001715	-10.2 2.4
PT 5	0.2999 120.0 -5.0	0.7814 676.4 10.0	0.074590 -0.000603 0.0023	0.005530 0.000000	-0.002991 -0.000819	0.004353 0.002001	-11.7 2.1
PT 6	0.2585 119.9 -5.0	0.7832 678.7 12.0	0.094580 -0.000627 0.0023	0.007500 0.000000	-0.004651 -0.001079	0.005864 0.002505	-13.3 1.5
PT 7	0.2997 119.9 -5.0	0.7800 675.9 13.0	0.104290 -0.000622 0.0023	0.008100 0.000000	-0.005587 -0.001132	0.006808 0.003024	-13.8 1.2
PT 8	0.3008 120.1 -5.0	0.7789 675.0 14.0	0.109460 -0.000770 0.0023	0.009240 0.000000	-0.006197 -0.001421	0.007901 0.003633	-14.8 0.8
PT 9	0.2998 120.1 -10.0	0.7804 676.9 9.0	0.039080 -0.000694 0.0023	0.005880 0.000000	-0.000834 -0.001091	0.003691 0.001738	-15.2 2.7
PT 10	0.2991 120.1 -10.0	0.7821 678.7 10.0	0.051720 -0.000710 0.0023	0.008220 0.000000	-0.001238 -0.001282	0.004612 0.001819	-16.0 2.7
PT 11	0.2995 120.0 -10.0	0.7803 676.9 12.0	0.072070 -0.000739 0.0023	0.012020 0.000000	-0.002570 -0.001724	0.006431 0.002183	-17.4 1.9

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEGA* THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 12	0.3001 120.2 -10.0	C.7806 676.9 14.0	0.090240 -0.000611 0.0023	0.015880 0.000000	-0.003656 -0.002195	0.008498 0.002718	-18.8 1.2
PT 13	0.3012 120.3 -10.0	C.7791 675.0 13.0	0.080680 -0.000863 0.0023	0.013830 0.000000	-0.003152 -0.001933	0.007382 0.002409	-18.1 1.6
PT 14	0.3012 120.4 0.0	C.7782 675.5 0.0	-0.007180 -0.000288 0.0023	-0.001760 0.000000	-0.000666 -0.000297	0.001353 0.001876	-0.5 3.2
PT 15	0.3005 120.3 0.0	C.7788 676.4 2.0	0.014290 -0.000143 0.0023	-0.001460 0.000000	-0.000807 -0.000150	0.001156 0.001569	-2.0 2.9
PT 16	0.3015 120.3 0.0	0.7768 674.1 4.0	0.035000 0.000016 0.0023	-0.001390 0.000000	-0.001174 -0.000159	0.001243 0.001509	-2.8 2.7
PT 17	0.3013 120.4 0.0	C.7782 675.5 6.0	0.055140 -0.000129 0.0023	-0.001150 0.000000	-0.001888 -0.000303	0.001565 0.001533	-4.3 2.4
PT 18	0.3017 120.5 0.0	0.7773 675.0 8.0	0.078500 -0.000034 0.0023	-0.001200 0.000000	-0.002983 -0.000286	0.002144 0.001742	-5.6 2.2
PT 19	0.3019 120.4 0.0	0.7763 674.1 10.0	0.097400 -0.000032 0.0023	-0.000820 0.000000	-0.004766 -0.000474	0.003067 0.002139	-7.2 1.7
PT 20	0.2993 120.4 0.0	0.7817 680.1 11.0	0.107710 -0.000059 0.0023	-0.001010 0.000000	-0.005452 -0.000477	0.003589 0.002442	-7.8 1.6
PT 21	0.3009 120.4 0.0	0.7777 676.4 12.0	0.115890 -0.000228 0.0023	-0.000100 0.000000	-0.006493 -0.000583	0.004656 0.003017	-9.1 1.4

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
ID 2E

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEGA* THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 49							
PT 24	0.3728 150.7 -5.0	0.8321 683.3 8.0	0.043450 -0.000249 0.0022	0.001930 0.000000	-0.001949 -0.000497	0.003137 0.002230	-10.9 3.2
PT 25	0.3746 150.7 -5.0	0.8293 680.1 10.0	0.060520 -0.000326 0.0022	0.003940 0.000000	-0.002745 -0.000629	0.004252 0.002410	-12.8 3.2
PT 26	0.3741 150.7 -5.0	0.8293 681.0 12.0	0.080850 -0.000462 0.0022	0.006370 0.000000	-0.004489 -0.000922	0.005900 0.002976	-14.6 2.4
PT 27	0.3763 150.9 -5.0	0.8267 677.8 13.0	0.089480 -0.000614 0.0022	0.007040 0.000000	-0.004360 -0.001108	0.006859 0.003416	-15.4 2.3
PT 28	0.3766 150.9 -5.0	0.8256 677.3 14.0	0.096470 -0.000525 0.0022	0.007970 0.000000	-0.005212 -0.001320	0.008063 0.004138	-16.4 1.8
PT 29	0.3746 150.8 -10.0	0.8275 680.6 11.0	0.042930 -0.000624 0.0022	0.006350 0.000000	-0.001385 -0.001255	0.005019 0.002455	-17.7 3.2
PT 30	0.3762 151.3 -10.0	0.8273 679.6 12.0	0.052490 -0.000575 0.0022	0.008160 0.000000	-0.001852 -0.001412	0.005945 0.002602	-18.4 3.0
PT 31	0.3761 149.9 -10.0	0.8260 673.6 13.0	0.060480 -0.000724 0.0022	0.009720 0.000000	-0.002331 -0.001645	0.006782 0.002765	-19.2 2.7
PT 32	0.3759 151.3 -10.0	0.8261 680.1 14.0	0.071270 -0.000578 0.0022	0.011970 0.000000	-0.002851 -0.002013	0.008046 0.003044	-20.2 2.2

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RH0100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 33	0.3760 151.3 0.0	0.8255 680.1 0.0	-0.006790 -0.000189 0.0022	-0.002540 0.000000	-0.001230 -0.000137	0.001508 0.002459	-0.2 3.9
PT 34	0.3775 151.4 0.0	0.8236 677.8 2.0	0.012290 -0.000210 0.0022	-0.002360 0.000000	-0.001308 -0.000090	0.001252 0.002126	-2.0 3.7
PT 35	0.3772 151.6 0.0	0.8251 679.2 4.0	0.033220 -0.000026 0.0022	-0.002220 0.000000	-0.001622 -0.000108	0.001231 0.001958	-3.4 3.5
PT 36	0.3772 151.6 0.0	0.8251 679.2 6.0	0.050160 -0.000112 0.0022	-0.001840 0.000000	-0.002314 -0.000183	0.001555 0.002002	-5.2 3.5
PT 37	0.3743 150.9 0.0	0.8261 681.5 8.0	0.069390 -0.000127 0.0022	-0.001520 0.000000	-0.003067 -0.000218	0.002118 0.002205	-6.9 3.2
PT 38	0.3770 151.8 0.0	0.8251 680.6 10.0	0.087130 -0.000092 0.0022	-0.000900 0.000000	-0.004436 -0.000303	0.003136 0.002721	-8.8 3.0
PT 39	0.3779 151.8 0.0	0.8234 678.7 11.0	0.015040 -0.000219 0.0022	-0.000440 0.000000	-0.005182 -0.000333	0.003903 0.003174	-9.7 3.0
PT 40	0.3766 151.9 0.0	0.8260 681.5 12.0	0.102840 -0.000239 0.0022	0.000090 0.000000	-0.006484 -0.000506	0.005020 0.003935	-10.6 2.2
RUN 51 PT 40	0.3820 152.3 -4.6	0.8174 673.6 12.7	0.073080 -0.001181 0.0022	0.000770 0.000000	-0.003236 -0.000745	0.006529 0.003061	-16.1 4.2

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1E 2E

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RH0100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPD/S	ALFC AI
RUN 51							
PT 25	0.3871 154.6 -4.6	0.8284 675.0 12.7	0.073540 -0.001170 0.0022	0.007470 0.000000	-0.003305 -0.000559	0.006524 0.003110	-16.2 3.8
PT 26	0.3869 154.6 -4.6	0.8273 675.5 12.7	0.053470 -0.002692 0.0022	0.008150 0.000000	-0.001618 -0.000459	0.006434 0.003006	-18.5 5.5
PT 27	0.3872 154.4 -4.6	0.8250 674.1 12.7	0.087010 -0.000160 0.0022	0.005420 0.000000	-0.003881 -0.000342	0.006096 0.003265	-14.3 3.5
PT 28	0.3883 154.8 -4.6	0.8251 673.6 12.7	0.073260 -0.001258 0.0022	0.007370 0.000000	-0.000202 0.000310	0.006521 0.003141	-15.6 6.3
PT 29	0.3876 154.9 -4.6	0.8262 675.5 12.7	0.072980 -0.001079 0.0022	0.007600 0.000000	-0.005755 -0.001366	0.006550 0.003090	-16.7 2.0
PT 30	0.3888 154.9 -4.6	0.8240 673.2 12.7	0.073580 -0.001189 0.0022	0.007460 0.000000	-0.002918 -0.000567	0.006521 0.003101	-16.1 4.1
PT 31	0.3893 155.2 -6.6	0.8250 673.6 12.7	0.058770 -0.001662 0.0022	0.008440 0.000000	-0.002240 -0.000817	0.006548 0.002931	-18.2 4.4
PT 32	0.3886 155.1 -2.6	0.8249 674.6 12.7	0.087890 -0.000780 0.0022	0.005140 0.000000	-0.003903 -0.000256	0.006083 0.003342	-14.1 3.8
PT 33	0.3902 155.4 -4.6	0.8242 673.2 12.7	0.072950 -0.001254 0.0022	0.007370 0.000000	-0.002973 -0.000531	0.006503 0.003119	-16.1 4.1

SWEPT TIP	V/OR VKTS ALFS.U	MAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPQ/S	ALFC A1
PT 34	0.3892 155.3 -4.6	0.8253 674.6 13.7	0.088200 -0.000705 0.0022	0.007660 0.000000	-0.003393 -0.000538	0.007352 0.003622	-16.2 3.8
PT 35	0.3894 155.1 -4.6	0.8237 673.2 11.7	0.054830 -0.001727 0.0022	0.006340 0.000000	-0.002004 -0.000479	0.005555 0.002798	-16.1 4.8
PT 36	0.3896 155.4 -4.6	0.8249 674.1 12.7	0.073040 -0.000944 0.0022	0.007320 0.000000	-0.000493 0.000011	0.006401 0.003037	-15.9 4.1
PT 37	0.3882 155.6 -4.6	0.8265 677.3 12.7	0.070610 -0.000601 0.0022	0.007580 0.000000	-0.005833 -0.001134	0.006521 0.003097	-16.5 4.5
PT 38	0.3888 155.7 -4.6	0.8264 676.9 12.7	0.071110 -0.001223 0.0022	0.007480 0.000000	-0.003334 -0.000835	0.006452 0.003059	-16.4 4.1
PT 39	0.3998 159.4 -4.6	0.8291 673.6 12.7	0.068990 -0.001298 0.0022	0.007180 0.000000	-0.003467 -0.000786	0.006474 0.003157	-16.4 4.2

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
ID 2F

SWEPT TIP	V/DOR VKTS ALFS,U	MAT CMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPD/S	ALFC A1
RUN 49							
PT 43	0.3754 164.2 -5.0	0.8986 739.3 8.0	0.041760 -0.000349 0.0022	0.001370 0.000300	-0.001495 -0.000476	0.003172 0.002482	-10.6 4.1
PT 44	0.3735 163.6 -5.0	0.8984 740.2 10.0	0.062560 -0.000565 0.0022	0.003440 0.000000	-0.002395 -0.000709	0.004534 0.002856	-12.5 3.8
PT 45	0.3756 164.2 -5.0	0.8964 738.8 11.0	0.070360 -0.000539 0.0022	0.004570 0.000000	-0.002858 -0.000901	0.005238 0.003031	-13.4 3.3
RUN 51							
PT 3	0.3748 162.6 -5.0	0.8975 733.3 9.0	0.050240 -0.000270 0.0022	0.002200 0.000000	-0.001643 -0.000323	0.003682 0.002606	-11.3 3.8
PT 4	0.3756 162.8 -5.0	0.8952 732.4 10.0	0.060310 -0.000238 0.0022	0.003180 0.000000	-0.002483 -0.000487	0.004344 0.002790	-12.2 3.3
PT 5	0.3750 162.7 -5.0	0.8960 733.3 11.0	0.069170 -0.000410 0.0022	0.004390 0.000000	-0.002907 -0.000720	0.005186 0.003064	-13.2 3.1
PT 6	0.3776 163.1 -5.0	0.8920 730.1 12.0	0.077800 -0.000420 0.0022	0.005260 0.000000	-0.003412 -0.000802	0.005936 0.003349	-14.1 2.9
PT 7	0.3738 163.0 -5.0	0.8971 737.0 13.0	0.088330 -0.000349 0.0022	0.006310 0.000000	-0.004049 -0.000903	0.007153 0.004015	-14.9 2.4
PT 8	0.3751 163.4 -5.0	0.8969 736.1 13.5	0.090650 -0.000319 0.0022	0.006930 0.000000	-0.004284 -0.000980	0.007677 0.004259	-15.3 2.2

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 9	0.3758 164.1 -10.0	0.8980 737.9 10.0	0.032820 -0.000264 0.0022	0.003800 0.000000	-0.000922 -0.000794	0.004045 0.002509	-16.3 3.9
PT 10	0.3782 164.0 -10.0	0.8925 732.8 11.0	0.043020 -0.000162 0.0022	0.005690 0.000000	-0.001256 -0.000943	0.004986 0.002652	-16.7 3.6
PT 11	0.3745 164.1 -10.0	0.8997 740.7 12.0	0.052560 -0.000150 0.0022	0.007720 0.000000	-0.001795 -0.001203	0.006036 0.002870	-17.8 3.1
PT 12	0.3766 164.5 -10.0	0.8974 738.4 13.0	0.062340 -0.000208 0.0022	0.009630 0.000000	-0.002097 -0.001507	0.007225 0.003213	-18.7 2.8
PT 13	0.3758 164.4 -10.0	0.8980 739.3 13.5	0.067070 -0.000197 0.0022	0.010580 0.000000	-0.002089 -0.001637	0.007833 0.003410	-19.2 2.7
PT 14	0.3762 164.2 0.0	0.8951 737.5 0.0	-0.038910 0.000045 0.0022	-0.002810 0.000000	-0.001469 0.000185	0.001785 0.002834	0.3 3.7
PT 15	0.3772 164.5 0.0	0.8936 737.0 2.0	0.010040 -0.000090 0.0022	-0.002610 0.000000	-0.001376 0.000276	0.001424 0.002400	-1.4 3.9
PT 16	0.3777 164.9 0.0	0.8951 737.9 4.0	0.030560 -0.000141 0.0022	-0.002530 0.000000	-0.001667 0.000180	0.001357 0.002221	-3.0 3.6
PT 17	0.3766 164.7 0.0	0.8960 739.3 6.0	0.049110 -0.000133 0.0022	-0.002310 0.000000	-0.002260 0.000182	0.001622 0.002253	-4.7 3.6
PT 18	0.3768 164.7 0.0	0.8956 738.8 7.0	0.059080 -0.000167 0.0022	-0.002150 0.000000	-0.002880 0.000210	0.001904 0.002366	-5.6 3.4

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEGA* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 19	0.3766 165.0 0.0	0.8963 740.2 8.0	0.068490 -0.000121 0.0022	-0.001780 0.000000	-0.003195 0.000093	0.002309 0.002513	-6.5 3.4
PT 20	0.3757 164.9 0.0	0.8974 741.6 9.0	0.078130 -0.000041 0.0022	-0.001800 0.000000	-0.003978 -0.000059	0.002732 0.002801	-7.3 3.2
PT 21	0.3749 164.9 0.0	0.8983 743.4 10.0	0.086120 -0.000211 0.0022	-0.001330 0.000000	-0.004230 -0.000073	0.003321 0.003081	-8.2 3.3
PT 22	0.3753 165.0 0.0	0.8972 743.0 11.0	0.093910 -0.000345 0.0022	-0.000740 0.000000	-0.005087 -0.000145	0.004287 0.003686	-9.2 3.0
1 RUN 59 PT 5	0.3743 163.0 -5.0	0.8989 736.1 10.0	0.054650 -0.000494 0.0022	0.002970 0.000000	-0.002122 -0.000289	0.004242 0.002831	-13.0 4.4
PT 6	0.3754 163.5 -5.0	0.8979 736.1 12.0	0.074820 -0.000589 0.0022	0.005250 0.000000	-0.003420 -0.000542	0.005925 0.003395	-14.9 3.9
PT 7	0.3750 163.6 -5.0	0.8977 737.5 14.0	0.093350 -0.000853 0.0022	0.007580 0.000000	-0.004190 -0.000782	0.008401 0.004689	-16.5 3.1

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
10 2H

SWEPT TIP	V/OR VKTS ALFS:U	MAT OMEG* THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 59							
PT 8	0.3736 171.5 -5.0	C.9405 775.7 9.0	0.046380 -0.000447 0.0022	0.001660 0.000000	-0.001814 -0.000074	0.003999 0.003163	-11.7 4.1
PT 9	0.3742 171.9 -5.0	C.9406 776.2 11.0	0.065140 -0.000576 0.0022	0.003620 0.000000	-0.002866 -0.000328	0.005485 0.003705	-13.2 3.7
PT 10	0.3752 172.0 -5.0	0.5388 774.8 12.0	0.376410 -0.000518 0.0022	0.004550 0.000000	-0.003675 -0.000489	0.006399 0.004109	-13.7 3.1
PT 11	0.3746 172.2 -5.0	C.5403 777.1 10.0	0.050830 -0.000413 0.0022	0.002450 0.000000	-0.002976 -0.000067	0.004649 0.003409	-12.1 3.6
PT 12	0.3751 172.5 -2.5	0.9389 777.1 8.0	0.051350 -0.000291 0.0022	-0.000260 0.000000	-0.002268 0.000124	0.003167 0.003003	-8.7 3.8
PT 13	0.3761 172.4 -2.5	0.9367 774.8 9.0	0.060880 -0.000364 0.0022	0.000120 0.000000	-0.002757 0.000002	0.003594 0.003179	-9.4 3.7
PT 14	0.3752 172.8 -2.5	0.9398 778.5 10.0	0.069220 -0.000508 0.0022	0.000690 0.000000	-0.003326 -0.000060	0.004247 0.003510	-10.3 3.5
PT 15	0.3747 172.8 -2.5	C.9406 779.4 11.0	0.081140 -0.000397 0.0022	0.001110 0.000000	-0.004118 -0.000059	0.005036 0.003963	-11.1 3.2
PT 16	0.3738 173.3 -7.5	0.9427 783.3 11.0	0.051980 -0.000404 0.0022	0.004660 0.000000	-0.001838 -0.000578	0.005641 0.003629	-15.0 3.6

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 17	0.3738 173.4 -7.5	0.9424 783.8 13.0	0.371070 -0.000679 0.0022	0.007600 0.000000	-0.002795 -0.001012	0.007622 0.004275	-16.6 3.1
PT 18	0.3724 173.5 -7.5	0.9450 787.4 13.5	0.076970 -0.000581 0.0022	0.008180 0.000000	-0.003045 -0.001280	0.008278 0.004636	-16.6 2.5

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1A 2B

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEGA* THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 23							
PT 3	0.2008 78.8 0.0	0.7184 663.5 0.0	-0.009090 0.000026 0.0024	-0.001120 0.000000	-0.000553 0.000143	0.001251 0.001460	-1.1 1.8
PT 4	0.2010 78.9 0.0	0.7174 663.0 2.0	0.012920 0.000261 0.0024	-0.000870 0.000000	-0.000685 0.000148	0.001099 0.001244	-1.6 1.2
PT 5	0.2010 78.9 0.0	0.7171 663.5 4.0	0.034890 0.000276 0.0024	-0.000890 0.000000	-0.001040 0.000092	0.001252 0.001204	-2.3 0.9
PT 6	0.2019 79.2 0.0	0.7160 662.6 6.0	0.058380 0.000383 0.0024	-0.001130 0.000000	-0.001757 -0.000012	0.001667 0.001265	-3.0 0.6
PT 7	0.2012 79.0 0.0	0.7171 664.0 8.0	0.080790 0.000330 0.0024	-0.001520 0.000000	-0.002880 0.000000	0.002339 0.001432	-3.8 0.2
PT 8	0.2003 78.9 0.0	0.7180 665.3 10.0	0.103750 0.000198 0.0024	-0.002070 0.000000	-0.004304 -0.000144	0.003308 0.001713	-4.6 -0.2
PT 9	0.1991 79.0 0.0	0.7220 670.4 11.0	0.114910 0.000132 0.0024	-0.002360 0.000000	-0.005253 -0.000157	0.004021 0.002012	-5.1 -0.5
PT 10	0.2003 79.1 0.0	0.7198 667.7 11.0	0.125340 0.000216 0.0024	-0.002650 0.000000	-0.006231 -0.000230	0.004893 0.002492	-5.6 -0.9
PT 11	0.2007 79.1 0.0	0.7179 666.3 13.0	0.134440 0.000055 0.0024	-0.002420 0.000000	-0.006978 -0.000341	0.006071 0.003191	-6.2 -1.1

TAPERED TIP

	V/OR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 12	0.2003 79.1 0.0	0.7191 667.7 13.5	0.137360 -0.000011 0.0024	-0.002350 0.000000	-0.007434 -0.000368	0.006774 0.003726	-6.6 -1.4
PT 13	0.2003 79.2 -2.5	0.7193 668.6 4.0	0.026560 -0.000109 0.0024	0.000250 0.000000	-0.000846 -0.000102	0.001388 0.001207	-4.7 1.1
PT 14	0.1994 79.2 -2.5	0.7213 670.9 6.0	0.048500 -0.000028 0.0024	0.001100 0.000000	-0.001308 -0.000167	0.001927 0.001268	-5.7 0.9
PT 15	0.2004 79.2 -2.5	0.7183 668.1 8.0	0.073130 0.000009 0.0024	0.001770 0.000000	-0.002404 -0.000229	0.002781 0.001430	-6.3 0.4
PT 16	0.2005 79.2 -2.5	0.7178 667.7 10.0	0.096500 -0.000009 0.0024	0.002310 0.000000	-0.003790 -0.000348	0.003907 0.001708	-7.1 -0.1
PT 17	0.2004 79.2 -2.5	0.7177 667.7 12.0	0.117180 -0.000162 0.0024	0.002930 0.000000	-0.005438 -0.000528	0.005491 0.002342	-8.1 -0.8
PT 18	0.2008 79.4 -2.5	0.7185 668.1 13.0	0.126270 -0.000155 0.0024	0.003280 0.000000	-0.006095 -0.000653	0.006670 0.003043	-8.7 -0.9
PT 19	0.1998 79.2 -2.5	0.7193 669.5 14.0	0.128850 0.001227 0.0024	0.004260 0.000000	-0.006468 -0.000917	0.007974 0.004016	-9.4 -1.4
PT 22	0.2003 79.5 -5.0	0.7199 670.4 6.0	0.042260 -0.000118 0.0024	0.002620 0.000000	-0.001121 -0.000202	0.002115 0.001257	-7.9 1.0
PT 23	0.2001 79.3 -5.0	0.7179 670.0 8.0	0.064710 -0.000206 0.0023	0.004430 0.000000	-0.001969 -0.000335	0.003055 0.001386	-8.7 0.6

TAPERED TIP	V/OR VKTS FS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 24	0.2007 79.7 -5.0	0.7193 670.9 10.0	0.087840 -0.000094 0.00023	0.005830 0.000000	-0.003317 -0.000512	0.004253 0.001645	-9.5 0.1
PT 25	0.2000 79.3 -5.0	0.7179 670.0 12.0	0.109440 -0.000259 0.00023	0.007430 0.000000	-0.004895 -0.000759	0.005898 0.002174	-10.4 -0.5
PT 26	0.1993 79.4 -5.0	0.7207 673.4 13.0	0.118160 -0.000420 0.00023	0.008320 0.000000	-0.005637 -0.000922	0.006979 0.002702	-10.9 -0.8
PT 27	0.1998 79.5 -5.0	0.7200 672.7 14.0	0.124850 -0.000460 0.00023	0.009270 0.000000	-0.006290 -0.001094	0.008259 0.003491	-11.6 -1.1
PT 28	0.2020 79.7 10.0	0.7155 667.2 0.0	0.025600 0.000419 0.00023	-0.005870 0.000000	-0.001429 0.000151	0.000254 0.001318	9.0 0.8
PT 29	0.2008 79.4 10.0	0.7155 668.6 2.0	0.046790 0.000593 0.00023	-0.009870 0.000000	-0.001937 0.000095	-0.000317 0.001257	8.3 0.6
PT 30	0.2006 79.5 10.0	0.7164 669.5 4.0	0.068340 0.000689 0.00023	-0.014090 0.000000	-0.002587 0.000087	-0.000650 0.001305	7.7 0.5
PT 31	0.2011 79.8 10.0	0.7170 670.4 6.0	0.090690 0.000708 0.00023	-0.018510 0.000000	-0.003811 -0.000035	-0.000762 0.001432	7.0 0.2
PT 32	0.2013 79.8 10.0	0.7166 670.0 8.0	0.114120 0.000896 0.00023	-0.023490 0.000000	-0.005238 -0.000016	-0.000647 0.001666	6.5 -0.1
PT 33	0.2021 80.0 10.0	0.7156 668.6 10.0	0.136240 0.000845 0.00023	-0.027940 0.000000	-0.007053 0.000048	0.000062 0.002275	5.6 -0.3

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RH0100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 34	0.2008	0.7186	0.145380	-0.029600	-0.008043	0.000847	5.0
	79.9	672.7	0.000752	0.000000	0.000156	0.002855	-0.6
	10.0	11.0	0.0023				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1C 2D

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPD/S	ALFC A1
RUN 24							
PT 3	0.3011 120.1 0.0	0.7791 674.3 1.0	0.001290 -0.000068 0.0023	-0.001680 0.000000	-0.000772 0.000005	0.001206 0.001712	1.1 0.0
PT 4	0.3012 120.3 0.0	0.7790 674.8 2.0	0.010820 -0.000003 0.0023	-0.001490 0.000000	-0.000851 -0.000003	0.001159 0.001594	0.1 -0.3
PT 5	0.3005 120.5 0.0	0.7810 677.6 4.0	0.032750 0.000060 0.0023	-0.001350 0.000000	-0.001219 -0.000043	0.001177 0.001449	-0.9 -0.6
PT 6	0.3010 120.5 0.0	0.7795 676.6 5.0	0.053790 0.000167 0.0023	-0.001230 0.000000	-0.001989 -0.000082	0.001464 0.001476	-2.0 -0.9
PT 7	0.2993 120.4 0.0	0.7814 679.9 8.0	0.075130 0.000170 0.0023	-0.001030 0.000000	-0.002894 -0.000126	0.002061 0.001665	-3.3 -1.1
PT 8	0.3011 120.6 0.0	0.7787 677.1 10.0	0.096930 0.000170 0.0023	-0.000750 0.000000	-0.004561 -0.000193	0.003020 0.002081	-4.8 -1.5
PT 9	0.3010 120.9 0.0	0.7799 678.9 11.0	0.105510 0.000022 0.0023	-0.000280 0.000000	-0.005154 -0.000254	0.003733 0.002436	-5.6 -1.4
PT 10	0.3005 120.9 0.0	0.7807 679.9 12.0	0.114810 0.000010 0.0023	0.000190 0.000000	-0.006242 -0.000298	0.004735 0.003037	-6.4 -1.9
PT 11	0.3003 120.9 0.0	0.7811 680.3 13.0	0.120800 -0.000126 0.0023	0.000750 0.000000	-0.006930 -0.000404	0.006218 0.004175	-7.3 -2.2

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RH0100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 12	0.3006 121.0 7.5	0.7805 680.3 0.0	0.027120 0.000287 0.0023	-0.005500 0.000000	-0.001975 0.000102	0.000184 0.001746	8.3 -0.7
PT 13	0.3018 121.0 7.5	0.7774 677.6 2.0	0.046340 0.000396 0.0022	-0.007930 0.000000	-0.002528 0.000077	-0.000539 0.001587	7.2 -1.0
PT 14	0.3002 120.8 7.5	0.7796 680.3 4.0	0.066690 0.000418 0.0022	-0.010450 0.000000	-0.003221 0.000083	-0.000907 0.001678	5.8 -0.9
PT 15	0.3013 121.2 7.5	0.7790 679.9 6.0	0.085930 0.000453 0.0022	-0.012770 0.000000	-0.004269 0.000049	-0.000987 0.001944	4.7 -1.0
PT 16	0.3011 120.9 7.5	0.7781 678.5 8.0	0.106650 0.000586 0.0022	-0.014800 0.000000	-0.005404 -0.000075	-0.000671 0.002375	3.3 -1.1
PT 17	0.3003 121.1 7.5	0.7812 681.7 9.0	0.115590 0.000688 0.0022	-0.015570 0.000000	-0.006220 -0.000061	-0.000254 0.002757	2.6 -1.2
PT 18	0.3002 121.2 7.5	0.7817 682.2 10.0	0.123120 0.000608 0.0022	-0.016020 0.000000	-0.006929 0.000028	0.000608 0.003530	1.7 -1.2
RUN 25 PT 3	0.2997 119.6 -5.0	0.7820 674.3 8.0	0.050480 -0.000218 0.0023	0.003360 0.000000	-0.001787 -0.000460	0.002945 0.001621	-5.5 -3.1
PT 4	0.2988 119.1 -5.0	0.7809 673.9 10.0	0.072950 -0.000439 0.0023	0.005540 0.000000	-0.002589 -0.000734	0.004181 0.001860	-6.9 -3.6
PT 5	0.3004 120.0 -5.0	0.7828 675.3 12.0	0.092110 -0.000562 0.0023	0.007600 0.000000	-0.004122 -0.001020	0.005712 0.002373	-8.3 -4.1

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEGA* THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 6	0.3016 120.1 -5.0	0.7801 673.2 13.0	0.101450 -0.000447 0.0023	0.008660 0.000000	-0.004686 -0.001205	0.006789 0.002901	-9.0 -4.5
PT 7	0.3005 120.1 -5.0	0.7821 675.3 13.5	0.105010 -0.000324 0.0023	0.009130 0.000000	-0.005106 -0.001407	0.007416 0.003300	-9.4 -4.8
PT 8	0.3006 119.9 -10.0	0.7758 673.9 10.0	0.050360 -0.000544 0.0023	0.008030 0.000000	-0.001424 -0.001037	0.004501 0.001772	-11.2 -3.2
PT 9	0.3005 119.9 -10.0	0.7802 674.3 11.0	0.061090 -0.000572 0.0023	0.010000 0.000000	-0.001825 -0.001262	0.005391 0.001923	-11.8 -3.4
PT 10	0.3004 120.0 -10.0	0.7812 675.3 12.0	0.071030 -0.000524 0.0023	0.012070 0.000000	-0.002134 -0.001574	0.006365 0.002110	-12.4 -3.8
PT 11	0.2999 120.2 -10.0	0.7823 677.1 13.0	0.081230 -0.000341 0.0023	0.013730 0.000000	-0.002700 -0.001864	0.007345 0.002405	-13.0 -4.2
RUN 26 PT 3	0.3000 119.4 -5.0	0.7815 672.7 11.0	0.083560 -0.000441 0.0023	0.006630 0.000000	-0.003718 -0.000778	0.004911 0.002051	-7.4 -4.0
PT 4	0.2976 118.8 -7.5	0.7850 674.8 9.0	0.049460 -0.000620 0.0023	0.005390 0.000000	-0.001298 -0.000865	0.003667 0.001755	-8.2 -3.5
PT 5	0.2996 119.3 -7.5	0.7833 673.2 10.0	0.061050 -0.000727 0.0023	0.006810 0.000000	-0.001818 -0.001019	0.004421 0.001916	-8.8 -3.6
PT 6	0.3026 119.8 -7.5	0.7804 669.0 12.0	0.081600 -0.000763 0.0023	0.009720 0.000000	-0.002782 -0.001393	0.006130 0.002365	-10.3 -4.2

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RH0100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 7	0.2997 119.1 -7.5	0.7813 671.3 13.0	0.091340 -0.000722 0.0023	0.011120 0.000000	-0.003466 -0.001659	0.007032 0.002658	-10.9 -4.5
PT 8	0.2989 118.9 -7.5	0.7811 672.3 14.0	0.099710 -0.000545 0.0023	0.012300 0.000000	-0.003873 -0.001860	0.008126 0.003207	-11.6 -4.9
PT 9	0.3005 119.4 -7.5	0.7803 671.3 15.0	0.104560 -0.000202 0.0023	0.013380 0.000000	-0.003834 -0.002359	0.009651 0.004269	-12.5 -5.2
RUN 28 PT 3	0.3001 119.5 -2.5	0.7749 673.2 9.6	0.065250 -0.001321 0.0023	0.005090 0.000000	-0.001897 -0.000456	0.003876 0.001817	-8.7 0.4
PT 4	0.2996 120.2 -2.5	0.7768 678.2 9.7	0.069200 -0.000969 0.0022	0.004570 0.000000	-0.002603 -0.000562	0.003787 0.001820	-8.4 0.0
PT 5	0.3024 120.2 -2.5	0.7703 671.8 9.7	0.056840 -0.002076 0.0022	0.006170 0.000000	-0.001852 -0.000685	0.004076 0.001813	-10.2 0.7
PT 6	0.2991 119.7 -2.5	0.7736 676.4 9.7	0.080570 -0.000039 0.0022	0.002530 0.000000	-0.003369 -0.000419	0.003389 0.001820	-6.9 -0.9
PT 8	0.3012 120.3 -2.5	0.7719 675.0 9.7	0.067990 -0.001179 0.0022	0.004980 0.000000	-0.003789 -0.000998	0.003888 0.001814	-9.0 -1.0
PT 9	0.3007 120.4 -2.5	0.7732 676.4 9.7	0.069260 -0.000986 0.0022	0.004740 0.000000	-0.003053 -0.000701	0.003831 0.001809	-8.6 -0.5
PT 12	0.3008 120.5 -2.5	0.7730 676.9 9.7	0.066890 -0.001119 0.0022	0.004840 0.000000	-0.002644 -0.000633	0.003798 0.001786	-8.7 -0.2

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S KHJ100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 13	0.3030 120.7 -4.5	0.7702 673.2 9.7	0.055340 -0.001494 0.0022	0.006320 0.000000	-0.002203 -0.0000845	0.004035 0.001742	-10.7 -0.1
PT 14	0.3006 120.1 -0.5	0.7701 675.0 9.7	0.079750 -0.000666 0.0022	0.002470 0.000000	-0.003248 -0.000396	0.003317 0.001784	-6.4 -0.4

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2E

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 25							
PT 12	0.3752 150.3 0.0	0.8276 677.1 0.0	-0.008400 -0.000200 0.0022	-0.002530 0.000000	-0.001606 -0.000029	0.001574 0.002518	4.3 -1.7
PT 13	0.3747 150.4 0.0	0.8289 678.5 2.0	0.010230 -0.000128 0.0022	-0.002330 0.000000	-0.001673 0.000090	0.001253 0.002116	2.8 -1.8
PT 14	0.3764 150.7 0.0	0.8270 676.6 4.0	0.025790 0.000074 0.0022	-0.002090 0.000000	-0.001925 0.000104	0.001220 0.001918	1.2 -2.1
PT 15	0.3742 150.8 0.0	0.8304 681.2 6.0	0.048990 0.000059 0.0022	-0.001960 0.000000	-0.002505 0.000133	0.001407 0.001900	-0.1 -2.3
PT 16	0.3754 150.9 0.0	0.8282 679.4 8.0	0.067480 -0.000034 0.0022	-0.001380 0.000000	-0.003282 -0.000103	0.002045 0.002110	-1.9 -2.5
PT 17	0.3751 150.9 0.0	0.8285 679.9 10.0	0.084890 0.000008 0.0022	-0.000820 0.000000	-0.004302 -0.000108	0.002971 0.002561	-3.4 -2.6
PT 18	0.3757 150.9 0.0	0.8270 678.9 11.0	0.093310 0.000009 0.0022	-0.000180 0.000000	-0.004913 -0.000219	0.003804 0.003005	-4.3 -2.9
PT 19	0.3751 150.9 0.0	0.8270 679.9 12.0	0.100920 -0.000010 0.0022	0.000490 0.000000	-0.005991 -0.000364	0.005039 0.003840	-5.2 -3.3
RUN 26							
PT 10	0.3769 149.4 -5.0	0.8244 670.0 9.0	0.045630 -0.000281 0.0023	0.002660 0.000000	-0.001992 -0.000355	0.003477 0.002231	-6.6 -2.3

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 11	0.3763 149.9 -5.0	0.8255 673.2 10.0	0.058800 -0.000212 0.0023	0.003740 0.000000	-0.002412 -0.000390	0.004127 0.002378	-7.4 -2.5
PT 12	0.3770 150.1 -5.0	0.8254 672.7 12.0	0.077360 -0.000371 0.0023	0.005910 0.000000	-0.003396 -0.000747	0.005677 0.002855	-9.2 -2.9
PT 13	0.3775 150.3 -5.0	0.8250 672.7 13.0	0.087130 -0.000468 0.0023	0.007120 0.000000	-0.004368 -0.000787	0.006732 0.003291	-10.1 -3.3
PT 14	0.3774 150.2 -10.0	0.8241 672.7 11.0	0.042340 -0.000401 0.0023	0.006150 0.000000	-0.001600 -0.000877	0.004809 0.002313	-12.3 -2.5
PT 15	0.3769 150.4 -10.0	0.8253 674.3 12.0	0.052450 -0.000433 0.0023	0.008200 0.000000	-0.001943 -0.001236	0.005885 0.002523	-13.1 -2.8
PT 16	0.3733 149.9 -10.0	0.8281 678.5 13.0	0.060420 -0.000730 0.0023	0.010030 0.000000	-0.002151 -0.001413	0.006843 0.002734	-14.0 -2.9
PT 17	0.3757 150.2 -10.0	0.8255 675.7 14.0	0.070730 -0.000564 0.0022	0.012050 0.000000	-0.002341 -0.001778	0.008083 0.003057	-14.7 -3.5
PT 19	0.3750 149.7 -10.0	0.8273 674.8 14.5	0.075680 -0.000036 0.0023	0.012970 0.000000	-0.002378 -0.002149	0.009012 0.003578	-15.2 -4.0
PT 20	0.3724 149.9 6.0	0.8313 680.3 0.0	0.024410 0.000183 0.0023	-0.004910 0.000000	-0.002461 0.000041	0.000431 0.002201	9.0 -2.3
PT 21	0.3745 150.1 6.0	0.8285 677.6 2.0	0.042980 0.000310 0.0023	-0.006650 0.000000	-0.002865 -0.000037	-0.000277 0.002029	7.6 -2.5

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 22	0.3740 150.4 6.0	0.8297 679.4 3.0	0.051620 0.000362 0.0023	-0.007360 0.000000	-0.003097 0.000020	-0.000474 0.002013	7.0 -2.4
PT 23	0.3743 150.4 6.0	0.8293 678.9 4.0	0.060870 0.000303 0.0023	-0.008090 0.000000	-0.003346 0.000026	-0.000553 0.002104	6.1 -2.4
PT 24	0.3719 150.2 6.0	0.8314 682.6 5.0	0.069230 0.000483 0.0022	-0.009010 0.000000	-0.003717 0.000003	-0.000739 0.002130	5.7 -2.5
PT 25	0.3766 150.5 6.0	0.8246 675.3 6.0	0.076930 0.000410 0.0022	-0.009340 0.000000	-0.004024 -0.000001	-0.000609 0.002323	4.7 -2.4
PT 26	0.3727 150.2 6.0	0.8295 681.2 7.0	0.084930 0.000413 0.0022	-0.009770 0.000000	-0.004451 0.000015	-0.000391 0.002527	4.0 -2.0
RUN 30 PT 10	0.3794 151.4 -4.2	0.8278 674.6 12.3	0.069930 -0.001341 0.0023	0.007280 0.000000	-0.003019 -0.000798	0.006208 0.002966	-10.5 -1.5
PT 11	0.3800 151.7 -4.2	0.8258 674.6 12.4	0.070240 -0.001424 0.0022	0.007410 0.000000	-0.002955 -0.000846	0.006292 0.002990	-10.6 -1.4
PT 12	0.3789 151.9 -4.2	0.8285 677.3 12.4	0.056430 -0.002601 0.0022	0.008480 0.000000	-0.001981 -0.000959	0.006418 0.002891	-12.4 -0.8
PT 13	0.3776 151.5 -4.2	0.8281 678.2 12.4	0.087030 -0.000152 0.0022	0.005360 0.000000	-0.004345 -0.000746	0.005968 0.003196	-8.9 -2.5
PT 14	0.3783 151.9 -4.2	0.8291 678.7 12.4	0.072410 -0.001409 0.0022	0.007280 0.000000	-0.000384 -0.000112	0.006326 0.003055	-10.0 0.3

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPU/S	ALFC AI
PT 15	0.3792 152.2 -4.2	0.8283 678.2 12.4	0.070740 -0.001414 0.0022	0.007740 0.000000	-0.005264 -0.001543	0.006393 0.002965	-11.2 -3.1
PT 16	0.3784 152.1 -4.2	0.8289 679.2 12.4	0.071590 -0.001412 0.0022	0.007570 0.000000	-0.002996 -0.000886	0.006336 0.002966	-10.6 -1.4
PT 17	0.3773 152.0 -4.2	0.8297 681.0 14.4	0.098290 -0.000543 0.0022	0.007600 0.000000	-0.003630 -0.000862	0.008535 0.004712	-10.7 -2.4
PT 18	0.3786 151.7 -4.2	0.8260 677.3 10.4	0.038540 -0.002127 0.0022	0.004740 0.000000	-0.001853 -0.000994	0.004388 0.002445	-10.7 -0.9
PT 19	0.3777 152.3 -2.2	0.8298 681.5 12.4	0.084910 -0.000895 0.0022	0.005380 0.000000	-0.003913 -0.000651	0.005950 0.003203	-8.7 -1.9
PT 20	0.3784 152.5 -6.2	0.8289 681.0 12.4	0.058350 -0.001665 0.0022	0.008500 0.000000	-0.002499 -0.001085	0.006411 0.002858	-12.7 -1.3
PT 21	0.3772 152.4 -4.2	0.8296 682.9 12.4	0.072340 -0.001360 0.0022	0.007470 0.000000	-0.003067 -0.000889	0.006350 0.003015	-10.7 -1.6
PT 22	0.3774 152.6 -4.2	0.8295 683.3 12.4	0.073370 -0.000991 0.0022	0.007320 0.000000	-0.001120 -0.000137	0.006271 0.002974	-10.4 -1.8
PT 23	0.3762 152.6 -4.2	0.8316 685.6 12.4	0.071670 -0.000829 0.0022	0.007590 0.000000	-0.005219 -0.001142	0.006345 0.002981	-11.0 -1.5
PT 24	0.3711 151.2 -4.2	0.8310 688.4 12.4	0.072310 -0.001287 0.0022	0.007520 0.000000	-0.002901 -0.000732	0.006319 0.003000	-11.2 -1.7

TAPERED TIP	V/D VKTS ALFS,U	MAT OMEGA THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 25	0.3781 153.2 -4.2	0.8301 684.7 12.4	0.072300 -0.001264 0.0022	0.007510 0.000000	-0.003016 -0.000713	0.006381 0.003025	-10.7 -1.7
PT 26	0.3812 154.8 -4.2	0.8337 686.1 12.4	0.071110 -0.001243 0.0022	0.007370 0.000000	-0.003028 -0.000710	0.006328 0.003022	-10.8 -1.7
RUN 32 PT 3	0.3766 149.8 6.0	0.8271 672.3 0.0	0.023200 0.000112 0.0023	-0.004870 0.000000	-0.002193 0.000041	0.000488 0.002268	7.0 -0.8
PT 4	0.3755 149.6 6.0	0.8268 673.2 2.0	0.041050 0.000207 0.0023	-0.006500 0.000000	-0.002692 0.000030	-0.000204 0.002071	5.4 -1.2
PT 5	0.3756 149.7 6.0	0.8259 673.6 3.0	0.052050 0.000358 0.0022	-0.007580 0.000000	-0.002886 0.000154	-0.000413 0.002164	4.7 -1.2

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2H

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHJ100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 57							
PT 8	0.3762 172.6 -5.0	0.9374 775.2 8.0	0.038310 -0.000221 0.0022	0.000730 0.000000	-0.001495 -0.000255	0.003459 0.003040	-10.8 4.4
RUN 58							
PT 3	0.3741 169.4 -5.0	0.9384 765.1 8.0	0.038420 -0.000480 0.0022	0.000720 0.000000	-0.001527 -0.000305	0.003453 0.003036	-9.5 3.0
PT 4	0.3742 169.7 -5.0	0.9393 766.5 10.0	0.057420 -0.000565 0.0022	0.002650 0.000000	-0.002474 -0.000577	0.004657 0.003376	-11.2 2.4
PT 5	0.3737 169.8 -5.0	0.9388 767.9 11.0	0.065590 -0.000584 0.0022	0.003500 0.000000	-0.003231 -0.000688	0.005547 0.003753	-11.8 1.9
PT 6	0.3765 171.0 -5.0	0.9376 767.4 12.0	0.077810 -0.000696 0.0022	0.004610 0.000000	-0.003479 -0.000940	0.006565 0.004227	-12.9 1.8
PT 7	0.3748 170.6 -5.0	0.9378 769.2 12.5	0.081710 -0.000535 0.0022	0.005120 0.000000	-0.003557 -0.000989	0.007068 0.004484	-13.2 1.6
PT 8	0.3744 170.9 -2.5	0.9395 771.6 8.0	0.051360 -0.000577 0.0022	-0.000090 0.000000	-0.002151 -0.000128	0.003155 0.002965	-7.8 3.0
PT 9	0.3742 171.2 -2.5	0.9398 773.4 9.0	0.060490 -0.000561 0.0022	0.000450 0.000000	-0.002628 -0.000232	0.003686 0.003151	-8.6 2.9
PT 11	0.3796 171.9 -2.5	0.9308 765.1 10.0	0.070560 -0.000547 0.0022	0.001020 0.000000	-0.003189 -0.000323	0.004139 0.003260	-9.5 2.7

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RH0100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.3756 172.1 -2.5	0.9393 774.3 11.0	0.078000 -0.000765 0.0022	0.001830 0.000000	-0.003493 -0.000351	0.005058 0.003767	-10.3 2.6
PT 15	0.3741 170.3 -7.5	0.9408 769.2 11.0	0.053600 -0.000736 0.0022	0.005190 0.000000	-0.001904 -0.000928	0.005793 0.003564	-14.6 3.0
PT 16	0.3730 170.4 -7.5	0.9425 772.0 12.5	0.069120 -0.000625 0.0022	0.007430 0.000000	-0.002559 -0.001201	0.007409 0.004160	-15.6 2.4

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
10 21

TAPERED TIP	V/DR VKTS ALFS, U	MAT OMEGA* THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 58							
PT 17	0.3749 175.8 -7.5	0.9655 792.5 10.5	0.047820 -0.000645 0.0022	0.003620 0.000000	-0.001666 -0.000867	0.005669 0.004083	-13.6 2.9
PT 18	0.3743 175.8 -7.5	0.9667 793.9 12.8	0.070010 -0.000090 0.0022	0.006930 0.000000	-0.002086 -0.001533	0.008223 0.005140	-15.3 2.0
PT 19	0.3744 176.1 -5.0	0.9671 794.8 10.0	0.056030 -0.000858 0.0022	0.001550 0.000000	-0.002126 -0.000572	0.005223 0.004330	-10.9 2.6
PT 20	0.3752 176.3 -5.0	0.9656 793.9 11.0	0.065820 -0.000906 0.0022	0.002270 0.000000	-0.002683 -0.000830	0.005948 0.004664	-11.6 2.3
PT 21	0.3732 176.2 -5.0	0.9692 798.0 12.0	0.076240 -0.000162 0.0022	0.004720 0.000000	-0.003099 -0.000901	0.006914 0.004570	-12.2 1.7
PT 22	0.3740 176.1 -5.0	0.9670 795.7 13.0	0.084620 -0.000632 0.0022	0.003820 0.000000	-0.003400 -0.001272	0.008056 0.005912	-13.2 1.4
PT 23	0.3753 176.5 -2.5	0.9650 794.8 8.0	0.052220 -0.000473 0.0022	-0.000500 0.000000	-0.002436 -0.000318	0.003671 0.003589	-7.5 2.7
PT 24	0.3742 176.4 -2.5	0.9665 796.7 10.0	0.068620 -0.000602 0.0022	0.000550 0.000000	-0.002948 -0.000197	0.004767 0.004092	-8.9 2.7
PT 26	0.3753 176.9 -2.5	0.9655 796.7 11.0	0.078300 -0.000867 0.0022	0.001000 0.000000	-0.003383 -0.000388	0.005569 0.004583	-10.0 2.4

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1A 2B

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 39							
PT 3	0.2006 79.2 -2.5	C.7202 667.2 4.0	0.026960 0.000192 0.0024	0.000320 0.000000	-0.000842 0.000066	0.001467 0.001268	-9.1 10.4
PT 4	0.2008 79.2 -2.5	C.7186 666.3 6.0	0.049790 0.000155 0.0024	0.001240 0.000000	-0.001426 0.000010	0.002038 0.001327	-8.1 10.5
PT 5	0.2013 79.3 -2.5	0.7179 665.3 8.0	0.073750 0.000222 0.0024	0.001820 0.000000	-0.002321 -0.000046	0.002871 0.001494	-6.0 10.6
PT 6	0.2008 79.4 -2.5	0.7204 668.6 10.0	0.095330 0.000205 0.0024	0.002370 0.000000	-0.003786 -0.000190	0.003991 0.001824	-8.1 10.9
PT 7	0.2014 79.3 -2.5	0.7173 665.3 11.0	0.107510 0.000103 0.0024	0.002740 0.000000	-0.004603 -0.000248	0.004796 0.002098	-9.5 12.9
PT 8	0.2014 79.3 -2.5	0.7152 665.3 12.0	0.117410 -0.000029 0.0023	0.003060 0.000000	-0.005743 -0.000367	0.005647 0.002472	-9.3 11.1
PT 9	0.2017 79.5 -5.0	0.7159 665.8 6.0	0.040860 -0.000040 0.0023	0.002700 0.000000	-0.001144 -0.000119	0.002189 0.001335	-10.5 11.1
PT 10	0.2013 79.6 -5.0	C.7182 668.1 8.0	0.063400 -0.000030 0.0023	0.004470 0.000000	-0.001979 -0.000225	0.003118 0.001471	-9.1 10.3
PT 11	0.2015 79.5 -5.0	0.7175 666.7 10.0	0.089080 -0.000059 0.0023	0.006390 0.000000	-0.003477 -0.000424	0.004580 0.001820	-9.1 12.1

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.2007 79.4 -5.0	0.7190 668.6 12.0	0.109950 -0.000170 0.0023	0.007760 0.000000	-0.005072 -0.000629	0.006186 0.002378	-12.4 12.4
PT 13	0.2006 79.5 -5.0	0.7199 669.5 13.0	0.117560 -0.000252 0.0023	0.008470 0.000000	-0.005634 -0.000712	0.007014 0.002740	-13.5 12.9
PT 15	0.2018 79.6 0.0	0.7177 666.7 0.0	-0.010200 0.000162 0.0023	-0.001180 0.000000	-0.000531 0.000241	0.001314 0.001534	-7.7 13.0
PT 16	0.2017 79.7 0.0	0.7184 668.1 2.0	0.010940 0.000353 0.0023	-0.000920 0.000000	-0.000697 0.000354	0.001130 0.001292	-7.4 13.0
PT 17	0.2008 79.3 0.0	0.7169 667.2 4.0	0.034690 0.000454 0.0023	-0.000870 0.000000	-0.001025 0.000293	0.001275 0.001225	-7.1 13.0
PT 18	0.2024 79.6 0.0	0.7154 664.9 6.0	0.058560 0.000502 0.0023	-0.001070 0.000000	-0.001771 0.000164	0.001707 0.001289	-7.0 13.0
PT 19	0.2012 79.5 0.0	0.7176 667.7 8.0	0.079830 0.000420 0.0023	-0.001320 0.000000	-0.002665 0.000198	0.002340 0.001422	-4.6 10.2
PT 20	0.2015 79.6 0.0	0.7178 667.7 10.0	0.105980 0.000454 0.0023	-0.002270 0.000000	-0.004301 0.000084	0.003442 0.001816	-4.6 11.5
PT 21	0.2013 79.6 0.0	0.7181 668.1 11.0	0.115200 0.000360 0.0023	-0.002340 0.000000	-0.005078 -0.000039	0.004078 0.002085	-3.5 11.2
PT 22	0.2022 79.7 0.0	0.7160 666.3 12.0	0.124850 0.000275 0.0023	-0.002280 0.000000	-0.006110 -0.000072	0.004916 0.002495	-6.3 14.4

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEGA* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPD/S	ALFC A1
PT 23	0.2021 79.7 10.0	0.7165 666.7 2.0	0.046530 0.000697 0.0023	-0.009750 0.000000	-0.002034 0.000261	-0.000242 0.001330	6.3 10.7
PT 24	0.2019 79.5 10.0	0.7149 665.3 4.0	0.068850 0.000770 0.0023	-0.014180 0.000000	-0.002759 0.000298	-0.000570 0.001415	7.2 9.7
PT 25	0.2015 79.4 10.0	0.7156 666.3 6.0	0.090170 0.000918 0.0023	-0.018430 0.000000	-0.003810 0.000200	-0.000728 0.001478	5.8 10.0
PT 26	0.2009 79.4 10.0	0.7172 668.1 8.0	0.113140 0.000868 0.0023	-0.022970 0.000000	-0.004905 0.000211	-0.000439 0.001793	5.6 10.5
PT 27	0.2019 79.8 10.0	0.7178 668.1 10.0	0.137040 0.000946 0.0023	-0.027960 0.000000	-0.006767 0.000300	0.000248 0.002417	5.5 11.3
PT 28	0.2014 79.7 10.0	0.7185 669.0 11.0	0.144900 0.000895 0.0023	-0.029550 0.000000	-0.007850 0.000306	0.000826 0.002883	5.3 12.7
PT 29	0.2021 79.7 10.0	0.7153 666.3 0.0	0.024780 0.000086 0.0023	-0.000000 0.000000	-0.001266 0.000223	0.000362 0.001442	6.2 9.2

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1C 2D

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 40							
PT 3	0.3016 119.2 -5.0	6.7780 668.1 6.0	0.029340 -0.000276 0.0023	0.001340 0.000000	-0.000612 -0.000277	0.002113 0.001601	-6.5 4.3
PT 4	0.3009 119.4 -5.0	0.7796 670.4 8.0	0.049820 -0.000263 0.0023	0.003310 0.000000	-0.001688 -0.000379	0.002997 0.001693	-7.3 4.7
PT 5	0.2997 119.4 -5.0	0.7813 673.2 10.0	0.071670 -0.000374 0.0023	0.005340 0.000000	-0.002791 -0.000571	0.004164 0.001923	-8.4 3.4
PT 6	0.2996 119.3 -5.0	0.7799 672.7 12.0	0.091010 -0.000614 0.0023	0.007430 0.000000	-0.004193 -0.000683	0.005706 0.002446	-9.9 2.5
PT 7	0.3005 119.5 -5.0	0.7792 672.3 13.0	0.100130 -0.000653 0.0023	0.008630 0.000000	-0.005024 -0.000860	0.006776 0.002935	-11.3 1.6
PT 8	0.3005 119.8 -5.0	0.7808 673.6 14.0	0.107390 -0.000806 0.0023	0.009880 0.000000	-0.005669 -0.001127	0.008076 0.003671	-12.7 1.0
PT 9	0.3019 119.9 -10.0	0.7775 671.3 8.0	0.026260 -0.000380 0.0023	0.003520 0.000000	-0.000999 -0.000533	0.002782 0.001632	-11.0 3.7
PT 10	0.3008 120.1 -10.0	0.7804 675.0 10.0	0.048080 -0.000602 0.0023	0.007720 0.000000	-0.001654 -0.000847	0.004377 0.001768	-12.6 3.6
PT 11	0.3009 119.9 -10.0	0.7789 673.6 12.0	0.069490 -0.000707 0.0023	0.011940 0.000000	-0.002743 -0.001347	0.006331 0.002139	-14.6 2.5

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEGA* THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
PT 12	0.2581 120.0 -10.0	0.7844 680.6 14.0	0.088710 -0.000707 0.0023	0.015810 0.000000	-0.003837 -0.001736	0.008447 0.002748	-16.8 1.6
PT 13	0.2595 120.0 -10.0	0.7808 677.3 15.0	0.098420 -0.000715 0.0023	0.017780 0.000000	-0.004268 -0.002149	0.009809 0.003275	-17.9 0.9
PT 14	0.2999 120.2 0.0	0.7810 677.3 0.0	-0.010320 -0.000378 0.0023	-0.001900 0.000000	-0.000993 0.000044	0.001476 0.002032	-1.4 2.9
PT 15	0.3012 120.6 0.0	0.7800 676.4 2.0	0.011550 -0.000040 0.0023	-0.001550 0.000000	-0.001042 0.000141	0.001190 0.001640	-1.3 3.0
PT 16	0.3009 120.4 0.0	0.7793 675.9 4.0	0.034970 0.000135 0.0023	-0.001250 0.000000	-0.001482 0.000071	0.001266 0.001491	-1.1 3.2
PT 17	0.2997 120.5 0.0	0.7821 679.6 6.0	0.055000 0.000103 0.0022	-0.000980 0.000000	-0.002010 0.000057	0.001607 0.001525	-1.1 3.0
PT 18	0.3007 120.4 0.0	0.7790 676.4 8.0	0.076400 0.000289 0.0022	-0.000910 0.000000	-0.003258 -0.000062	0.002177 0.001725	-2.5 3.9
PT 19	0.2992 120.3 0.0	0.7818 679.6 10.0	0.095070 0.000176 0.0022	-0.000620 0.000000	-0.004460 -0.000006	0.003035 0.002093	-2.9 3.3
PT 20	0.2997 120.7 0.0	0.7832 680.6 12.0	0.114270 -0.000013 0.0022	0.000090 0.000000	-0.006144 -0.000177	0.004649 0.002993	-4.3 2.6
PT 21	0.3013 120.8 0.0	0.7802 677.8 13.0	0.120720 -0.000135 0.0022	0.000870 0.000000	-0.007028 -0.000310	0.006101 0.004032	-5.6 2.2

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 41							
PT 3	0.3002 119.7 6.0	0.7804 674.1 0.0	0.019640 -0.000020 0.0023	-0.003910 0.000000	-0.001537 -0.000081	0.000637 0.001762	9.5 3.1
PT 4	0.2012 120.1 6.0	0.7805 673.6 2.0	0.042230 0.000299 0.0023	-0.006070 0.000000	-0.002056 0.000059	0.000041 0.001648	6.7 2.1
PT 5	0.2596 119.9 6.0	0.7827 676.4 4.0	0.062800 0.000397 0.0023	-0.008220 0.000000	-0.002805 0.000034	-0.000340 0.001630	5.0 0.6
PT 6	0.2995 119.8 6.0	0.7814 675.9 6.0	0.081920 0.000484 0.0023	-0.010020 0.000000	-0.003652 -0.000022	-0.000324 0.001838	3.5 0.8
PT 7	0.2994 119.9 6.0	0.7824 676.9 8.0	0.104300 0.000494 0.0023	-0.011820 0.000000	-0.005120 -0.000070	0.000105 0.002287	3.1 1.0
PT 8	0.3020 120.1 6.0	0.7779 672.3 9.0	0.112840 0.000378 0.0023	-0.012390 0.000000	-0.006227 -0.000174	0.000479 0.002645	2.8 1.3
PT 9	0.2988 120.3 6.0	0.7856 680.6 10.0	0.120180 0.000422 0.0023	-0.012470 0.000000	-0.006535 -0.000085	0.001295 0.003215	2.5 1.8
RUN 42							
PT 3	0.2986 119.3 -2.5	0.7880 675.0 9.5	0.069570 -0.001013 0.0023	0.004540 0.000000	-0.001560 0.000026	0.003920 0.001960	-10.9 4.1
PT 4	0.3008 120.1 -2.5	0.7881 674.6 9.5	0.068990 -0.001043 0.0023	0.004640 0.000000	-0.001896 -0.000131	0.003957 0.001972	-11.1 3.9
PT 5	0.3013 120.3 -2.5	0.7874 675.0 9.5	0.057540 -0.001997 0.0023	0.006110 0.000000	-0.001292 -0.000295	0.004198 0.001946	-13.0 4.7

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RH0100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPD/S	ALFC AI
PT 6	0.3011 120.2 -2.5	0.7868 674.6 9.5	0.084860 0.000175 0.0023	0.001720 0.000000	-0.002990 0.000020	0.003346 0.001936	-8.8 2.7
PT 7	0.3022 120.4 -2.5	0.7858 673.2 9.5	0.070230 -0.000985 0.0023	0.004290 0.000000	0.001941 0.001064	0.003911 0.002006	-10.1 7.0
PT 8	0.3015 120.4 -2.5	0.7875 675.0 9.5	0.069220 -0.000955 0.0023	0.004700 0.000000	-0.003605 -0.000639	0.003950 0.001933	-11.4 2.8
PT 9	0.3018 120.1 -2.5	0.7842 672.7 9.5	0.070590 -0.000950 0.0023	0.004500 0.000000	-0.000896 0.000205	0.003926 0.001951	-10.8 4.7
PT 10	0.3004 120.1 -2.5	0.7866 675.5 11.5	0.100300 -0.000263 0.0023	0.003790 0.000000	-0.001674 0.000287	0.004925 0.002534	-10.7 3.9
PT 11	0.3019 120.2 -2.5	0.7836 672.7 7.5	0.036000 -0.001717 0.0023	0.003000 0.000000	-0.000400 0.000039	0.002799 0.001731	-10.9 5.5
PT 12	0.3022 120.7 -2.5	0.7865 675.0 9.5	0.069430 -0.000942 0.0023	0.004510 0.000000	-0.002177 -0.000236	0.003896 0.001937	-11.0 3.7
PT 13	0.3021 120.5 -2.5	0.7846 674.1 11.5	0.100180 -0.000297 0.0023	0.003900 0.000000	-0.0003910 -0.000132	0.004578 0.002560	-11.1 2.8
PT 14	0.3016 120.3 -2.5	0.7843 674.1 7.5	0.038550 -0.001616 0.0023	0.003210 0.000000	-0.001317 -0.000418	0.002882 0.001730	-11.2 4.1
PT 15	0.3026 120.6 -2.5	0.7843 673.6 9.5	0.069530 -0.001037 0.0023	0.004620 0.000000	-0.002231 -0.000244	0.003932 0.001937	-11.1 3.9

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPD/S	ALFC A1
PT 16	0.3024 120.5 -4.5	0.7837 673.2 9.5	0.057450 -0.001397 0.00023	0.006150 0.000000	-0.001592 -0.000498	0.004172 0.001905	-13.2 3.8
PT 17	0.3029 120.8 -0.5	0.7843 674.1 9.5	0.080650 -0.000695 0.00023	0.002330 0.000000	-0.002941 0.000060	0.003434 0.001925	-9.0 3.4
PT 18	0.3024 120.6 -2.5	0.7840 674.1 9.5	0.068980 -0.001073 0.00023	0.004580 0.000000	-0.002208 -0.000251	0.003924 0.001950	-11.1 3.5
PT 19	0.3027 120.9 -2.5	0.7838 675.0 9.5	0.069380 -0.001021 0.00023	0.004620 0.000000	-0.002469 -0.000469	0.003908 0.001915	-11.2 3.7
PT 20	0.3032 121.0 -2.5	0.7835 674.6 9.5	0.069170 -0.000734 0.00023	0.004520 0.000000	-0.004292 -0.000752	0.003913 0.001953	-11.4 3.9
PT 21	0.3040 121.3 -2.5	0.7835 674.1 9.5	0.068600 -0.001123 0.00023	0.004640 0.000000	-0.002049 0.000165	0.003913 0.001923	-11.1 3.8

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2E

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEGA* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 41							
PT 10	0.3787 151.4 -5.0	0.8277 675.5 9.0	0.050550 -0.000446 0.0022	0.002770 0.000000	-0.001784 -0.000523	0.003733 0.002432	-6.8 2.2
PT 11	0.3759 150.5 -5.0	0.8271 676.4 9.0	0.050790 -0.000385 0.0022	0.002780 0.000000	-0.001602 -0.000452	0.003709 0.002409	-6.7 2.1
PT 12	0.3767 150.4 -5.0	0.8253 674.6 10.0	0.062040 -0.000136 0.0022	0.003970 0.000000	-0.002651 -0.000416	0.004433 0.002556	-7.4 2.2
PT 13	0.3777 150.6 -5.0	0.8248 673.6 12.0	0.080140 -0.000388 0.0022	0.006050 0.000000	-0.004224 -0.000727	0.006097 0.003176	-9.4 2.4
PT 14	0.3754 150.7 -5.0	0.8283 678.2 13.0	0.087750 -0.000591 0.0022	0.007130 0.000000	-0.004171 -0.000884	0.007062 0.003618	-10.1 2.6
PT 15	0.3748 150.7 -5.0	0.8296 679.6 14.0	0.094560 -0.000469 0.0022	0.008430 0.000000	-0.004487 -0.001209	0.008423 0.004373	-11.1 2.2
PT 16	0.3775 150.9 -10.0	0.8254 675.5 10.0	0.032000 -0.000393 0.0022	0.004120 0.000000	-0.000811 -0.000883	0.004017 0.002362	-12.1 2.5
PT 17	0.3758 150.9 -10.0	0.8283 678.7 12.0	0.055280 -0.000313 0.0022	0.008570 0.000000	-0.001553 -0.001353	0.006292 0.002766	-13.6 2.5
PT 18	0.3773 150.9 -10.0	0.8258 675.9 14.0	0.071960 -0.000116 0.0022	0.012150 0.000000	-0.002192 -0.001985	0.008521 0.003423	-15.3 2.4

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEGA THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 19	0.3755 151.2 -10.0	0.8296 680.6 14.5	0.076030 0.000067 0.0022	0.013030 0.000000	-0.002276 -0.002183	0.009085 0.003618	-16.0 2.2
PT 20	0.3776 151.0 0.0	0.8253 675.9 0.0	-0.011180 -0.000121 0.0022	-0.002690 0.000000	-0.001377 0.000028	0.001724 0.002727	5.1 1.8
PT 21	0.3777 151.1 0.0	0.8253 675.9 2.0	0.010430 -0.000062 0.0022	-0.002420 0.000000	-0.001334 0.000075	0.001339 0.002241	3.5 1.7
PT 22	0.3772 151.1 0.0	0.8261 676.9 4.0	0.027960 -0.000066 0.0022	-0.002120 0.000000	-0.001699 0.000141	0.001400 0.002123	2.3 1.7
PT 23	0.3772 151.2 0.0	0.8267 677.3 6.0	0.049410 0.000012 0.0022	-0.001790 0.000000	-0.002277 0.000022	0.001657 0.002088	0.7 1.5
PT 24	0.3747 151.2 0.0	0.8300 681.9 8.0	0.067800 -0.000020 0.0022	-0.001430 0.000000	-0.002825 -0.000047	0.002204 0.002281	-0.7 2.4
PT 25	0.3750 151.0 0.0	0.8285 680.6 10.0	0.086420 -0.000008 0.0022	-0.000840 0.000000	-0.004259 -0.000129	0.003293 0.002864	-2.9 2.4
PT 26	0.3775 150.9 0.0	0.8238 675.5 11.0	0.095850 -0.000066 0.0022	-0.000310 0.000000	-0.005064 -0.000164	0.004211 0.003419	-3.3 2.6
PT 27	0.3770 151.0 0.0	0.8252 676.9 12.0	0.102270 -0.000257 0.0022	0.000740 0.000000	-0.005783 -0.000274	0.005464 0.004149	-4.1 2.6
PT 28	0.3750 151.1 0.0	0.8291 681.0 12.5	0.105560 0.000005 0.0022	0.000940 0.000000	-0.006133 -0.000391	0.006193 0.004731	-4.8 2.8

RECTANGULAR TIP	V/DR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPD/S	ALFC AL
RUN 42							
PT 24	0.3759 149.2 6.0	0.8257 670.9 0.0	0.024890 0.000174 0.0023	-0.005070 0.000000	-0.002855 0.000449	0.000463 0.002306	4.6 5.6
PT 25	0.3750 149.0 6.0	0.8250 671.3 2.0	0.043670 0.000393 0.0023	-0.006770 0.000000	-0.003206 0.000394	-0.000242 0.002108	2.8 4.0
PT 26	0.3742 149.6 6.0	0.8288 675.5 4.0	0.062010 0.000379 0.0022	-0.008450 0.000000	-0.003915 0.000328	-0.000610 0.002168	1.3 3.6
PT 27	0.3760 149.8 6.0	0.8255 673.2 6.0	0.078460 0.000284 0.0022	-0.009470 0.000000	-0.004499 0.000328	-0.000509 0.002441	-0.5 3.8
PT 28	0.3764 149.7 6.0	0.8246 672.3 7.0	0.087640 0.000291 0.0022	-0.010170 0.000000	-0.005066 0.000320	-0.000348 0.002717	-1.2 3.8
PT 29	0.3758 149.8 6.0	0.8252 673.6 8.0	0.096720 0.000286 0.0022	-0.010510 0.000000	-0.005900 0.000300	0.000019 0.003039	-2.3 3.6
PT 30	0.3739 149.8 6.0	0.8280 676.9 8.5	0.098820 0.000274 0.0022	-0.010390 0.000000	-0.005673 0.000421	0.000321 0.003228	-2.6 3.9
RUN 45							
PT 12	0.3821 152.2 -4.6	0.8161 673.2 12.5	0.074080 -0.001130 0.0022	0.007680 0.000000	-0.002076 -0.000525	0.006615 0.003145	-16.7 5.3

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1E 2E

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPQ/S	ALFC A1
RUN 43							
PT 3	0.3852 154.3 -4.6	0.8343 676.9 12.5	0.073740 -0.001495 0.0022	0.007250 0.000000	-0.002945 -0.000727	0.006688 0.003366	-16.0 4.7
PT 4	0.3859 154.2 -4.6	0.8313 675.5 12.5	0.072670 -0.001611 0.0022	0.007430 0.000000	-0.002967 -0.000696	0.006694 0.003313	-16.1 4.8
PT 5	0.3865 155.1 -4.6	0.8336 678.2 12.5	0.055830 -0.002690 0.0022	0.008130 0.000000	-0.001876 -0.000920	0.006658 0.003215	-18.3 5.9
PT 6	0.3861 154.5 -4.6	0.8311 676.4 12.5	0.086720 -0.000374 0.0022	0.005450 0.000000	-0.004351 -0.000628	0.006354 0.003521	-14.5 3.7
PT 7	0.3886 155.1 -4.6	0.8288 674.6 12.5	0.071670 -0.001644 0.0022	0.007140 0.000000	-0.000193 0.000085	0.006630 0.003359	-15.3 6.9
PT 8	0.3891 155.3 -4.6	0.8283 674.6 12.5	0.070440 -0.001597 0.0022	0.007530 0.000000	-0.004261 -0.001176	0.006722 0.003316	-16.7 3.6
PT 9	0.3890 155.3 -4.6	0.8275 674.6 12.5	0.071760 -0.001592 0.0022	0.007330 0.000000	-0.002885 -0.000708	0.006688 0.003342	-16.2 5.0
PT 10	0.3893 155.4 -4.6	0.8269 674.6 13.5	0.087040 -0.001205 0.0022	0.007690 0.000000	-0.003085 -0.000630	0.007608 0.003888	-16.3 4.8
PT 11	0.3899 155.4 -4.6	0.8253 673.6 11.5	0.055640 -0.002047 0.0022	0.006370 0.000000	-0.002073 -0.000660	0.005762 0.002982	-15.8 5.7

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT GMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.3907 155.9 -4.6	0.8254 674.6 12.5	0.070640 -0.001651 0.0022	0.007300 0.000000	-0.002540 -0.0000668	0.006680 0.003350	-16.3 5.3
RUN 45 PT 3	0.3895 155.3 -4.6	0.8289 673.6 12.5	0.071920 -0.001323 0.0022	0.007530 0.000000	-0.002363 -0.000526	0.006715 0.003288	-16.6 5.3
PT 4	0.3898 155.4 -6.6	0.8268 673.6 12.5	0.057970 -0.001773 0.0022	0.008570 0.000000	-0.001670 -0.000804	0.006679 0.003015	-18.6 5.6
PT 6	0.3899 155.6 -4.6	0.8257 674.6 12.5	0.073320 -0.000858 0.0022	0.007490 0.000000	-0.000003 -0.000127	0.006363 0.002927	-16.5 4.9
PT 7	0.3914 155.8 -4.6	0.8244 672.7 12.5	0.071050 -0.000782 0.0022	0.007640 0.000000	-0.004511 -0.000968	0.006694 0.003223	-17.1 5.4
PT 8	0.3929 156.5 -2.6	0.8243 673.2 12.5	0.086960 -0.000772 0.0022	0.005380 0.000000	-0.003007 -0.000285	0.006313 0.003480	-14.9 5.0
PT 9	0.3910 156.2 -4.6	0.8254 675.0 12.5	0.072800 -0.001154 0.0022	0.007640 0.000000	-0.002247 -0.000585	0.006680 0.003185	-16.9 5.3
PT 10	0.4013 160.2 -4.6	0.8304 674.6 12.5	0.069840 -0.001174 0.0022	0.007160 0.000000	-0.002350 -0.000655	0.006613 0.003285	-17.0 5.3
PT 11	0.3911 156.1 -4.6	0.8241 674.6 12.5	0.071860 -0.001082 0.0022	0.007460 0.000000	-0.002244 -0.000571	0.006618 0.003206	-16.9 5.3

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
10 2F

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG#R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC AI
RUN 46							
PT 3	0.3757 161.8 -5.0	0.8973 727.8 8.0	0.041060 -0.000407 0.0023	0.001380 0.000000	-0.001713 -0.000293	0.003311 0.002627	-9.2 4.9
PT 4	0.3769 162.6 -5.0	0.8963 729.2 10.0	0.061550 -0.000551 0.0022	0.003410 0.000000	-0.002238 -0.000610	0.004706 0.003044	-11.6 4.2
PT 5	0.3751 162.6 -5.0	0.8983 732.4 11.0	0.070300 -0.000710 0.0022	0.004610 0.000000	-0.002771 -0.000714	0.005560 0.003340	-12.1 4.1
PT 6	0.3752 162.5 -5.0	0.8978 731.9 12.0	0.078420 -0.000716 0.0022	0.005940 0.000000	-0.003255 -0.000904	0.006490 0.003650	-13.2 3.5
PT 7	0.3753 162.9 -5.0	0.8976 733.8 13.0	0.088970 -0.000482 0.0022	0.006830 0.000000	-0.003697 -0.001105	0.007691 0.004337	-13.9 2.7
PT 8	0.3745 162.9 -5.0	0.8979 735.2 13.5	0.092050 -0.000462 0.0022	0.007380 0.000000	-0.003904 -0.001130	0.008367 0.004755	-14.6 2.5
PT 9	0.3768 163.7 -10.0	0.8966 734.2 10.0	0.033290 -0.000462 0.0022	0.003860 0.000000	-0.000641 -0.000840	0.004281 0.002718	-14.0 4.9
PT 10	0.3768 164.2 -10.0	0.8986 736.5 11.0	0.043940 -0.000461 0.0022	0.006050 0.000000	-0.001214 -0.001241	0.005344 0.002873	-14.6 4.8
PT 11	0.3760 163.7 -10.0	0.8961 735.6 12.0	0.052760 -0.000494 0.0022	0.008050 0.000000	-0.001206 -0.001482	0.006420 0.003118	-16.1 4.0

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG* R THETA	CLR/S CMY/S RH01J0	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.3756 163.7 -10.0	0.8970 736.5 14.0	0.073210 -0.000021 0.0022	0.011750 0.000000	-0.001741 -0.001969	0.008947 0.003999	-18.8 2.3
PT 13	0.3753 163.9 -10.0	0.8977 737.9 15.0	0.082050 0.000333 0.0022	0.013470 0.000000	-0.001861 -0.002502	0.010371 0.004644	-19.6 1.6
PT 14	0.3732 163.8 0.0	0.8999 741.6 0.0	-0.012590 -0.000160 0.0022	-0.002990 0.000000	-0.001575 0.000203	0.007086 0.003127	-2.4 5.1
PT 15	0.3774 164.3 0.0	0.8937 735.6 2.0	0.007690 -0.000317 0.0022	-0.002810 0.000000	-0.001336 0.000013	0.001621 0.002678	-3.2 5.4
PT 16	0.3768 164.3 0.0	0.8950 737.0 4.0	0.027470 -0.000645 0.0022	-0.002520 0.000000	-0.001738 -0.000060	0.001603 0.002476	-3.9 4.8
PT 17	0.3749 164.6 0.0	0.8991 742.1 6.0	0.045070 -0.000629 0.0022	-0.001960 0.000000	-0.002244 -0.000112	0.001848 0.002381	-3.3 5.7
PT 18	0.3771 164.6 0.0	0.8949 737.5 7.0	0.053040 -0.000767 0.0022	-0.001380 0.000000	-0.002877 -0.000259	0.002255 0.002496	-3.4 5.4
PT 19	0.3728 164.6 0.0	0.9019 746.2 8.0	0.062110 -0.000753 0.0022	-0.001000 0.000000	-0.003595 -0.000267	0.002597 0.002584	-3.5 4.9
PT 20	0.3757 164.8 0.0	0.8977 741.1 9.0	0.072120 -0.000583 0.0022	-0.000390 0.000000	-0.003861 -0.000290	0.003191 0.002821	-4.3 4.5

SECTION B

Tabulated Loads Data

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	MV4 ACC TL4 ACC LN4 ACC
7	0.1462	0.7036	55.	1403.	3218.	266.	-5877.	-2387.	0.032
2	-0.26	-0.57	146. 1255.	1672. 2343.	3965. 3495.	3049. -1010.	-368. -1427.	6200. 4341.	0.014 0.007
7	0.1462	0.7068	78.	1232.	3062.	220.	-6007.	-2550.	0.027
3	-0.20	-0.32	109. 966.	1547. 2174.	3629. 3220.	3113. -786.	-164. -1208.	5898. 4170.	0.016 0.004
7	0.1491	0.6882	78.	1272.	3050.	218.	-5999.	-2566.	0.027
4	0.02	-0.36	101. 987.	1560. 2131.	3599. 3110.	2958. -764.	-179. -1204.	5640. 3989.	0.027 0.004
8	0.1512	0.6855	65.	1502.	3088.	329.	-6144.	-2303.	0.033
4	0.15	-0.34	124. 1208.	1645. 2241.	3821. 3515.	2856. -988.	-350. -1408.	6364. 4435.	0.028 0.006
8	0.1508	0.6872	73.	1335.	2885.	284.	-6248.	-2371.	0.025
5	-0.35	-0.30	81. 978.	1496. 2014.	3387. 3097.	2890. -791.	-186. -1252.	6203. 4335.	0.027 0.005
8	0.1505	0.6889	95.	1234.	3176.	245.	-6398.	-2462.	0.050
6	-0.09	0.05	105. 839.	1433. 2059.	3490. 3363.	3573. -560.	8. -1075.	5994. 4202.	0.031 0.001
8	0.1519	0.6873	162.	1312.	3739.	195.	-6554.	-2761.	0.085
7	0.02	0.15	307. 918.	1496. 2333.	4118. 4045.	4780. -329.	210. -872.	5512. 3860.	0.038 0.007
8	0.1511	0.6872	271.	1519.	6699.	148.	-6700.	-2889.	0.080
8	-0.03	0.13	370. 1068.	1908. 2877.	6822. 6258.	6543. -109.	413. -682.	5208. 3626.	0.104 0.007
8	0.1514	0.6874	306.	1696.	7831.	133.	-6795.	-2989.	0.099
9	-0.12	0.20	377. 1144.	2133. 3123.	8241. 7383.	7756. 29.	537. -533.	4994. 3496.	0.108 0.012
8	0.1518	0.6843	346.	1865.	8567.	108.	-6883.	-3071.	0.119
10	-0.08	0.26	457. 1230.	2343. 3384.	9028. 8087.	9050. 159.	652. -386.	4762. 3334.	0.130 0.015

SWEPT/TAPERED TIP

-B2-

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
8	0.1507	0.6862	350.	2023.	9501.	100.	-6995.	-3131.	0.131
11	0.12	0.21	545. 1368.	2555. 3593.	10023. 8921.	10816. 286.	798. -225.	4650. 3160.	0.131 0.015
8	0.1503	0.6862	382.	2252.	10333.	88.	-7069.	-3131.	0.152
12	-0.05	0.25	623. 1448.	2878. 3902.	10510. 9297.	12540. 409.	907. -120.	4510. 3104.	0.135 0.018
8	0.1502	0.6885	411.	2336.	11183.	72.	-7146.	-3017.	0.192
13	-0.05	0.26	666. 1517.	3080. 4090.	11057. 9496.	14850. 572.	1020. -19.	4478. 3140.	0.126 0.021
8	0.1519	0.6872	458.	2368.	11291.	52.	-7206.	-2745.	0.202
14	0.10	0.30	706. 1479.	3045. 4083.	10733. 9135.	17153. 734.	1104. 62.	4419. 3205.	0.136 0.021
8	0.1511	0.6881	87.	1232.	2986.	243.	-6493.	-2497.	0.053
15	-0.16	0.02	142. 811.	1389. 2026.	3371. 3282.	3853. -434.	89. -969.	5557. 4102.	0.037 0.003
9	0.1501	0.6894	71.	1228.	2751.	186.	-6534.	-3187.	0.037
3	0.60	-0.58	144. 906.	1347. 1970.	3321. 3217.	3951. -546.	101. -960.	4891. 3680.	0.025 0.005
9	0.1503	0.6872	116.	1111.	3259.	147.	-6673.	-3378.	0.057
4	0.46	-0.63	236. 732.	1328. 2099.	3668. 3736.	5335. -310.	269. -810.	4548. 3535.	0.039 0.003
9	0.1500	0.6851	184.	1329.	6092.	114.	-6798.	-3559.	0.064
5	0.57	-0.66	364. 840.	1594. 2480.	6078. 5470.	6698. -146.	406. -664.	4210. 3397.	0.078 0.010
9	0.1509	0.6899	283.	1635.	8166.	82.	-6962.	-3719.	0.083
6	0.49	-0.36	387. 1053.	1988. 3138.	8175. 7366.	8873. 73.	610. -477.	3611. 3174.	0.094 0.020
9	0.1507	0.6879	328.	1961.	9345.	58.	-7123.	-3903.	0.111
7	0.49	-0.35	652. 1301.	2371. 3780.	9414. 8870.	11168. 302.	818. -287.	2814. 2911.	0.121 0.023

SWEPT/TAPERED TIP

RUIN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
9	0.1517	0.6866	350.	2054.	9711.	44.	-7216.	-4041.	0.127
8	0.50	-0.25	775. 1457.	2508. 3990.	9853. 9308.	12501. 428.	928. -218.	2396. 2741.	0.142 0.028
9	0.1509	0.6852	70.	1227.	2579.	194.	-6530.	-3025.	0.041
9	0.61	-0.75	142. 875.	1349. 1961.	3194. 3061.	3912. -557.	94. -1017.	3913. 3742.	0.026 0.001
10	0.2011	0.7169	123.	1495.	4392.	170.	-6729.	-3372.	0.043
3	0.51	-0.64	311. 1021.	1650. 2412.	4726. 4668.	5735. -304.	208. -927.	4012. 3733.	0.056 0.008
10	0.2004	0.7180	220.	1700.	6560.	128.	-6904.	-3529.	0.059
4	0.49	-0.63	317. 1065.	1801. 2790.	6850. 6490.	8031. -23.	415. -795.	3637. 3612.	0.104 0.002
10	0.2007	0.7182	289.	2006.	7757.	95.	-7122.	-3760.	0.099
5	0.48	-0.56	316. 1237.	2270. 3285.	7470. 7067.	10860. 289.	656. -627.	3175. 3428.	0.118 0.014
10	0.2005	0.7205	326.	2245.	8583.	80.	-7268.	-4006.	0.112
6	0.46	-0.57	412. 1376.	2604. 3749.	8145. 7777.	12581. 447.	833. -525.	2802. 3234.	0.131 0.017
10	0.1995	0.7199	365.	2379.	8850.	63.	-7371.	-4127.	0.128
7	0.56	-0.23	551. 1493.	2731. 3886.	8372. 7928.	14390. 593.	954. -403.	374. 3130.	0.145 0.021
10	0.2013	0.7162	395.	2556.	9974.	44.	-7498.	-4307.	0.152
8	0.52	-0.29	591. 1605.	2844. 4116.	9315. 8841.	16487. 758.	1102. -275.	-1613. 2967.	0.163 0.031
10	0.2012	0.7166	486.	2521.	9358.	24.	-7599.	-4305.	0.156
9	0.61	-0.41	640. 1580.	2835. 4104.	8667. 8869.	18873. 900.	1215. -134.	-2170. 2992.	0.153 0.036
10	0.2021	0.7157	71.	1781.	3693.	307.	-6057.	-2697.	0.035
10	0.55	-0.65	152. 1467.	1964. 2468.	4648. 4181.	2971. -1157.	-542. -1468.	1146. 4539.	0.038 0.006

SWEPT/TAPERED TIP

10

PIT	V/D RIC	MAT BIS	PL OSC			N5 OSC			E5 OSC			PL MEAN			N5 MEAN			E5 MEAN			V4 ACC		
			Q OSC	N3 OSC		N6 OSC	N7 OSC		E6 OSC	E7 OSC		Q MEAN	N3 MEAN		N6 MEAN	N7 MEAN		E6 MEAN	E7 MEAN	TL4 ACC	LN4 ACC		
10	0.017	0.7179	87.			1710.			3665.			267.			-6164.			-2182.		0.029			
11	0.61	-0.73	120.			1921.			4485.			2947.			-387.			983.		0.045			
			1391.			2423.			4027.			-931.			-1420.			4578.		0.005			
10	0.2016	0.7159	93.			1694.			3648.			227.			-6327.			-2316.		0.035			
12	0.58	-0.70	143.			1876.			4308.			3449.			-198.			699.		0.045			
			1273.			2467.			4138.			-658.			-1300.			4511.		0.004			
10	0.2005	0.7177	148.			1705.			6228.			179.			-6486.			-2591.		0.054			
13	0.43	-0.46	277.			1944.			6529.			4483.			-9.			288.		0.057			
			1166.			2855.			6328.			-417.			-1196.			4377.		0.006			
10	0.2004	0.7179	237.			1676.			7413.			134.			-6654.			-2743.		0.063			
14	0.66	-0.41	311.			2026.			7606.			6249.			210.			-89.		0.116			
			1150.			3185.			7644.			-138.			-1053.			4257.		0.003			
10	0.2005	0.7179	302.			2046.			7503.			102.			-6828.			-2952.		0.114			
15	0.41	-0.29	471.			2265.			7721.			8341.			417.			-539.		0.134			
			1221.			4432.			7836.			166.			-909.			4143.		0.007			
10	0.2003	0.7178	406.			2288.			8759.			72.			-7026.			-3034.		0.132			
16	0.62	-0.34	705.			2650.			8666.			11824.			674.			-853.		0.143			
			1401.			3887.			8892.			464.			-707.			4048.		0.011			
10	0.2003	0.7168	79.			1670.			3534.			262.			-6311.			-2513.		0.036			
17	0.68	-0.09	154.			1796.			4266.			3086.			-246.			466.		0.042			
			1268.			2320.			3985.			-902.			-1208.			4179.		0.007			
10	0.1957	0.7184	95.			1653.			3736.			223.			-6442.			-2572.		0.033			
18	0.57	-0.23	159.			1803.			4418.			3951.			-88.			335.		0.049			
			1207.			2417.			4144.			-651.			-1146.			4271.		0.004			
10	0.2022	0.7160	143.			1662.			5366.			175.			-6630.			-2918.		0.061			
19	0.55	-0.10	319.			1785.			5723.			5299.			126.			-164.		0.052			
			1130.			2680.			5548.			-371.			-1025.			4102.		0.008			
10	0.2008	0.7196	239.			1744.			7130.			128.			-6838.			-3208.		0.067			
20	0.60	-0.18	316.			1895.			7122.			7363.			363.			-606.		0.117			
			1071.			3107.			7308.			-102.			-862.			3904.		0.001			

T/TAPERED TIP

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RUN	V/UR	MAT	PL OSC	N5 OSC	E5 OSC	PL MEAN	N5 MEAN	E5 MEAN	NV4 ACC
T	BIC	BIS	Q OSC	N6 OSC	E6 OSC	Q MEAN	N6 MEAN	E6 MEAN	TL4 ACC
			N3 OSC	N7 OSC	E7 OSC	N3 MEAN	N7 MEAN	E7 MEAN	LN4 ACC
10	0.2003	0.7173	304.	1987.	7206.	94.	-7039.	-3443.	0.106
21	0.68	-0.23	460.	2297.	7179.	9931.	601.	-1081.	0.125
			1200.	3398.	7537.	191.	-702.	3739.	0.007
10	0.2009	0.7195	406.	2356.	9015.	63.	-7267.	-3703.	0.139
22	0.71	0.06	670.	2751.	8553.	13393.	877.	-1610.	0.150
			1378.	3795.	8784.	507.	-490.	3544.	0.012
10	0.2008	0.7174	481.	2337.	9487.	44.	-7361.	-3692.	0.162
23	0.64	-0.01	709.	2825.	8950.	15523.	992.	-1734.	0.155
			1416.	3801.	9203.	644.	-408.	3605.	0.017
10	0.2012	0.7157	197.	1438.	6190.	129.	-7005.	-3423.	0.039
24	0.67	-0.17	334.	1615.	6178.	8480.	528.	-1035.	0.105
			881.	2424.	5692.	-78.	-529.	3414.	0.002
10	0.2007	0.7169	272.	1821.	6966.	92.	-7198.	-3622.	0.088
25	0.55	-0.18	314.	2047.	6767.	11793.	758.	-1450.	0.103
			1093.	2956.	6163.	242.	-389.	3269.	0.007
10	0.2009	0.7190	332.	2181.	8536.	59.	-7461.	-4089.	0.103
26	0.69	-0.03	299.	2435.	8143.	15617.	1075.	-2151.	0.136
			1350.	3481.	7515.	564.	-91.	2800.	0.009
11	0.2014	0.7161	207.	1468.	6242.	157.	-7113.	-3479.	0.032
2	0.87	0.86	450.	1621.	6267.	8733.	571.	5051.	0.060
			863.	2432.	5475.	-44.	-492.	3403.	0.001
11	0.2014	0.7150	272.	1847.	6956.	124.	-7324.	-3744.	0.083
3	0.66	0.77	399.	2040.	6845.	11936.	816.	4601.	0.063
			1015.	2972.	5774.	257.	-316.	3155.	0.004
11	0.2033	0.7142	340.	2135.	8388.	95.	-7563.	-4166.	0.121
4	0.61	0.98	324.	2337.	7994.	15633.	1092.	4004.	0.089
			1235.	3330.	6713.	578.	-106.	2866.	0.007
11	0.1999	0.7178	382.	2354.	8634.	79.	-7673.	-4351.	0.129
5	0.74	1.01	404.	2577.	8154.	17810.	1230.	3682.	0.092
			1476.	3615.	7028.	732.	22.	2698.	0.008

SWEPT/TAPERED TIP

SWEPT/TAPERED TIP

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RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
11 6	0.2006 0.79	0.7172 0.94	419. 523. 1616.	2565. 2795. 3850.	9532. 8692. 7758.	62. 20599. 906.	-7793. 1392. 176.	-4501. 3281. 2562.	0.148 0.083 0.036
11 7	0.2005 0.68	0.7181 1.08	529. 612. 1659.	2581. 2752. 3795.	9431. 8681. 7983.	44. 23452. 1056.	-7878. 1500. 249.	-4442. 3055. 2644.	0.195 0.077 0.041
11 8	0.1997 0.77	0.7190 1.08	666. 808. 1655.	2387. 2464. 3454.	9968. 9170. 8200.	12. 26751. 1201.	-7919. 1549. 296.	-3972. 2378. 2991.	0.279 0.057 0.040
11 9	0.2010 0.17	0.7152 0.19	113. 177. 1404.	1845. 1944. 2413.	4424. 4832. 4091.	369. 408. -1113.	-5802. -759. -1940.	-874. 6912. 5509.	0.033 0.053 0.003
11 10	0.2004 -0.02	0.7162 0.18	121. 173. 1343.	1861. 1969. 2467.	4555. 4923. 4151.	352. -237. -1036.	-5818. -735. -1957.	-846. 6931. 5610.	0.030 0.048 0.003
11 11	0.1996 0.18	0.7167 0.09	127. 205. 1495.	1924. 2036. 2535.	4667. 5063. 4172.	332. -695. -922.	-5893. -653. -1917.	-931. 6825. 5616.	0.045 0.050 0.003
11 12	0.2006 0.10	0.7154 0.36	156. 250. 1422.	2002. 2122. 2734.	6857. 7123. 5903.	287. -1637. -694.	-6051. -466. -1824.	-1211. 6430. 5499.	0.081 0.072 0.003
11 13	0.2016 0.08	0.7150 0.44	235. 288. 1495.	2179. 2301. 2958.	6964. 6956. 5810.	236. -2113. -488.	-6175. -332. -1771.	-1488. 6101. 5457.	0.105 0.069 0.002
11 14	0.2019 0.11	0.7165 0.42	313. 337. 1428.	2225. 2395. 3244.	9652. 9513. 8051.	194. -1809. -244.	-6357. -135. -1661.	-1686. 5878. 5487.	0.087 0.069 0.005
11 15	0.2021 0.15	0.7151 0.51	338. 488. 1621.	2362. 2552. 3617.	10716. 10614. 9154.	172. -1420. -132.	-6446. -41. -1533.	-1786. 5772. 5472.	0.119 0.096 0.006

SWEPT/TAPERED TIP

SWEPT/TAPERED TIP

RUN PT	V/OR BIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
11	0.2510	0.7498	93.	2121.	4206.	336.	-5980.	-1534.	0.049
19	-0.04	0.08	149. 1766.	2377. 3069.	5295. 4241.	2941. -1182.	-546. -1261.	5572. 4493.	0.032 0.012
11	0.2513	0.7494	107.	2092.	4838.	296.	-6174.	-1809.	0.024
20	0.17	0.07	167. 1597.	2345. 2921.	5717. 4538.	2863. -927.	-350. -1140.	5290. 4418.	0.042 0.010
11	0.2510	0.7476	119.	2108.	5330.	258.	-6336.	-1972.	0.023
21	0.17	0.20	172. 1508.	2335. 2888.	6000. 4714.	3254. -671.	-205. -1112.	5082. 4481.	0.044 0.008
11	0.2502	0.7491	177.	2168.	6424.	214.	-6484.	-2264.	0.073
22	0.03	0.19	317. 1484.	2432. 3171.	6756. 5716.	4056. -416.	-62. -1093.	4846. 4506.	0.029 0.012
11	0.2505	0.7487	224.	2202.	7970.	170.	-6710.	-2597.	0.077
23	0.12	0.19	462. 1427.	2514. 3395.	8599. 7435.	5562. -145.	168. -950.	4383. 4318.	0.060 0.010
11	0.2505	0.7503	292.	2393.	9090.	139.	-6881.	-2738.	0.140
24	0.07	0.31	657. 1399.	2637. 3879.	9529. 7883.	7639. 141.	352. -886.	4296. 4388.	0.053 0.017
11	0.2512	0.7502	485.	2598.	11181.	101.	-7107.	-2872.	0.159
25	0.09	0.39	760. 1629.	2825. 3984.	11020. 9391.	11029. 448.	559. -792.	4330. 4602.	0.074 0.018
11	0.2512	0.7481	634.	2769.	11710.	71.	-7193.	-2638.	0.203
26	0.11	0.45	756. 1939.	3094. 4183.	11825. 10011.	13370. 566.	631. -762.	4528. 4981.	0.094 0.023
11	0.2512	0.7482	203.	2001.	6725.	166.	-6965.	-3070.	0.053
27	0.11	0.23	435. 1278.	2241. 3147.	7260. 6389.	7899. -129.	397. -637.	4241. 3897.	0.054 0.007
11	0.2502	0.7510	283.	2103.	8055.	130.	-7208.	-3417.	0.111
28	0.19	0.29	408. 1245.	2313. 3449.	8270. 7283.	10918. 182.	634. -506.	3828. 3808.	0.049 0.013

SWEPT/TAPERED TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC F7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN F7 MEAN	NV4 ACC TL4 ACC LN4 ACC
12	0.2009	0.7190	153.	1843.	6793.	286.	-5683.	-1597.	0.081
3	0.13	0.26	270.	2248.	7105.	-1655.	-477.	7231.	0.004
			1527.	2861.	5408.	-726.	-1315.	4978.	0.003
12	0.2008	0.7165	302.	1995.	9311.	193.	-5970.	-2155.	0.100
4	0.14	0.43	361.	2429.	9189.	-1819.	-134.	6628.	0.004
			1556.	3336.	7233.	-253.	-1625.	4904.	0.005
12	0.2003	0.7186	258.	1497.	7318.	174.	-6291.	-2868.	0.074
5	0.14	0.27	291.	2054.	7529.	5975.	231.	5802.	0.003
			1126.	3134.	6497.	-121.	-1069.	3994.	0.001
12	0.2504	0.7487	117.	1818.	4721.	272.	-5929.	-2241.	0.035
6	0.01	0.17	113.	2317.	5414.	3267.	-222.	6733.	0.002
			1631.	2890.	4048.	-690.	-1281.	4150.	0.009
12	0.2517	0.7480	234.	1990.	8187.	174.	-6269.	-2846.	0.073
7	0.19	0.35	460.	2552.	8793.	5554.	184.	5937.	0.003
			1421.	3418.	7019.	-151.	-1082.	3969.	0.011
12	0.2514	0.7478	211.	1789.	7147.	169.	-6505.	-3457.	0.054
8	-0.00	0.25	421.	2292.	7611.	7911.	403.	5395.	0.003
			1271.	3197.	6125.	-117.	-774.	3532.	0.007
12	0.2523	0.7474	289.	1835.	7988.	135.	-6705.	-3742.	0.102
9	0.04	0.38	369.	2411.	8309.	10615.	624.	4961.	0.003
			1269.	3484.	6599.	193.	-664.	3429.	0.012
12	0.2513	0.7488	347.	2088.	9890.	102.	-6932.	-4193.	0.146
10	0.09	0.29	453.	2609.	9631.	14126.	881.	4453.	0.003
			1411.	4049.	7564.	516.	-503.	3238.	0.017
12	0.2503	0.7507	483.	2188.	10676.	62.	-7125.	-4348.	0.212
11	0.15	0.41	639.	2738.	10753.	18683.	1104.	4318.	0.003
			1610.	4271.	8558.	823.	-344.	3356.	0.025
12	0.2514	0.7461	134.	1850.	5229.	227.	-6208.	-2842.	0.051
12	0.22	0.14	318.	2265.	5688.	5075.	71.	6495.	0.002
			1439.	2891.	4377.	-423.	-1061.	3920.	0.014

SWEPT/TAPERED TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
12	0.2502	0.7474	230.	1921.	7523.	175.	-6394.	-3148.	0.055
13	0.10	0.24	397.	2517.	8294.	6998.	282.	6155.	0.003
			1366.	3439.	6648.	-138.	-987.	3886.	0.008
12	0.2510	0.7494	298.	1949.	8609.	140.	-6608.	-3514.	0.100
14	0.09	0.34	459.	2577.	9181.	9371.	517.	5679.	0.003
			1335.	3842.	7253.	172.	-838.	3741.	0.014
12	0.2512	0.7496	386.	2279.	10788.	107.	-6810.	-3771.	0.155
15	0.22	0.39	594.	2885.	10968.	12793.	756.	5240.	0.004
			1516.	4106.	8505.	490.	-550.	3677.	0.023
12	0.2006	0.6581	70.	1476.	2977.	338.	-5773.	-2334.	0.024
16	0.07	0.01	158.	1861.	3852.	2492.	-508.	6345.	0.000
			1407.	2320.	3073.	-1005.	-1295.	3591.	0.007
12	0.2013	0.6575	94.	1519.	3530.	264.	-5990.	-2563.	0.030
17	0.05	0.09	119.	1838.	4065.	2753.	-220.	5927.	0.001
			1267.	2280.	3322.	-526.	-1158.	3588.	0.004
12	0.1997	0.6581	144.	1543.	5453.	220.	-6158.	-2912.	0.054
18	0.10	0.24	252.	1927.	5940.	3637.	-11.	5478.	0.001
			1117.	2714.	4966.	-279.	-1017.	3431.	0.001
12	0.2007	0.6587	235.	1540.	7778.	178.	-6278.	-3030.	0.071
19	0.17	0.24	265.	1976.	7902.	4958.	156.	5189.	0.002
			1174.	3079.	6376.	-44.	-921.	3359.	0.008
12	0.2012	0.6594	289.	1750.	8181.	146.	-6427.	-3170.	0.108
20	0.15	0.42	438.	2202.	8504.	6787.	361.	4898.	0.003
			1188.	3291.	7195.	251.	-775.	3282.	0.014
12	0.2013	0.6576	124.	1477.	4826.	222.	-6259.	-3145.	0.042
21	0.13	0.23	260.	1791.	5249.	4285.	100.	5234.	0.001
			1075.	2580.	4542.	-280.	-845.	3241.	0.002
12	0.1995	0.6595	232.	1562.	7302.	173.	-6444.	-3471.	0.073
22	0.26	0.20	294.	1811.	7329.	6045.	323.	4808.	0.002
			1113.	2927.	6066.	7.	-699.	3091.	0.008

SWEPT/TAPERED TIP

B10

RUN PT	V/OR RIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
12	0.2002	0.6599	306.	1828.	7593.	139.	-6613.	-3701.	0.099
23	0.13	0.44	489.	2249.	7790.	8085.	559.	4364.	0.003
			1246.	3185.	6594.	297.	-533.	2939.	0.009
12	0.2011	0.6589	377.	2194.	9516.	110.	-6794.	-3936.	0.127
24	0.09	0.40	721.	2749.	9390.	10764.	753.	3906.	0.004
			1476.	3626.	7733.	579.	-357.	2793.	0.013
12	0.2011	0.6570	110.	1331.	4156.	221.	-6355.	-3387.	0.035
25	0.17	0.13	243.	1626.	4623.	4692.	198.	4969.	0.001
			982.	2336.	3932.	-246.	-687.	3000.	0.000
12	0.1994	0.6589	222.	1573.	6993.	175.	-6526.	-3657.	0.077
26	0.12	0.16	320.	1832.	6999.	6577.	403.	4602.	0.002
			1061.	2812.	5670.	42.	-572.	2883.	0.004
12	0.2001	0.6588	279.	1839.	8025.	142.	-6712.	-3917.	0.102
27	0.11	0.31	372.	2201.	9045.	8987.	642.	4164.	0.003
			1254.	3251.	6365.	352.	-414.	2710.	0.007
12	0.1996	0.6590	341.	2271.	9353.	111.	-6904.	-4223.	0.128
28	0.12	0.35	656.	2741.	9027.	11872.	898.	3630.	0.005
			1475.	3805.	6999.	642.	-189.	2469.	0.005
12	0.2007	0.6606	453.	2441.	9550.	77.	-7124.	-4571.	0.153
29	0.26	0.41	747.	2964.	8974.	15594.	1169.	3122.	0.006
			1765.	4202.	7492.	941.	39.	2251.	0.005
14	0.3007	0.7802	114.	2591.	4895.	350.	-5764.	-1646.	0.100
3	0.07	0.06	180.	3050.	5929.	3045.	-554.	6647.	0.002
			2099.	3867.	4885.	-1330.	-1472.	4436.	0.014
14	0.3020	.7773	101.	2670.	5517.	309.	-5926.	-1861.	0.076
4	0.04	0.02	238.	3056.	6180.	2941.	-422.	6460.	0.003
			2155.	3696.	4479.	-1024.	-1428.	4413.	0.012
14	0.3036	0.7749	115.	2675.	5986.	272.	-6040.	-1939.	0.073
5	0.10	0.11	279.	3005.	5986.	3221.	-337.	6497.	0.004
			2213.	3554.	4738.	-783.	-1442.	4538.	0.015

SWEPT/TAPERED TIP

-B11-

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
14 6	0.2998 0.18	0.7009 0.25	165. 410. 2098.	2694. 3026. 3692.	7514. 7552. 6037.	222. 4139. -520.	-6237. -155. -1358.	-2268. 6249. 4522.	0.051 0.003 0.018
14 7	0.3008 0.14	0.7807 0.14	246. 492. 1990.	2867. 3091. 4093.	9292. 9246. 7270.	181. 5710. -280.	-6410. 9. -1301.	-2313. 6115. 4574.	0.057 0.004 0.018
14 8	0.2989 0.04	0.7839 0.46	344. 547. 2023.	3005. 3315. 4451.	10842. 10396. 7722.	17. 7680. 51.	-6635. 229. -1196.	-2660. 5780. 4484.	0.100 0.003 0.024
14 9	0.3003 0.10	0.7818 0.59	482. 754. 2147.	3332. 3852. 4692.	14140. 13537. 10128.	99. 10955. 304.	-6836. 463. -932.	-2982. 5418. 4400.	0.135 0.005 0.025
14 10	0.3003 0.15	0.7813 0.14	119. 367. 1723.	2250. 2502. 3091.	5639. 6040. 4964.	223. 5705. -506.	-6481. 121. -823.	-2839. 5757. 3782.	0.061 0.003 0.012
14 11	0.2997 0.05	0.7818 0.34	218. 507. 1638.	2417. 2676. 3325.	7835. 8072. 6448.	181. 7922. -252.	-6674. 288. -739.	-2987. 5612. 3793.	0.051 0.004 0.015
14 12	0.3009 0.26	0.7802 0.25	309. 530. 1715.	2427. 2798. 3689.	8592. 8677. 6515.	146. 10671. 99.	-6897. 483. -656.	-3295. 5251. 3685.	0.083 0.003 0.023
14 13	0.2996 0.09	0.7802 0.08	346. 460. 1765.	2781. 3334. 4112.	10498. 10458. 8193.	113. 13870. 408.	-7103. 699. -500.	-3652. 4834. 3506.	0.134 0.003 0.033
14 14	0.3003 0.08	0.7817 0.15	464. 702. 1863.	2948. 3638. 4661.	12618. 12400. 9618.	65. 18730. 704.	-7301. 924. -336.	-3814. 4613. 3484.	0.178 0.004 0.036
14 15	0.2999 0.28	0.7809 0.16	578. 652. 1941.	2966. 3815. 4804.	12439. 12641. 9835.	18. 21873. 796.	-7382. 988. -284.	-3600. 4628. 3819.	0.208 0.004 0.036

SWEPT/TAPERED TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MFAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC T14 ACC LN4 ACC
14	0.2998	0.7814	353.	2301.	9111.	173.	-7222.	-3639.	0.111
16	3.35	-0.13	582. 1582.	2731. 3439.	9055. 7130.	15357. 424.	823. -205.	4583. 3167.	0.003 0.032
14	0.3010	0.7795	218.	2828.	6844.	183.	-6541.	-2649.	0.077
17	-2.92	0.22	538. 1910.	3098. 4042.	8760. 7325.	7196. -186.	138. -1034.	5926. 4279.	0.003 0.021
14	0.3012	0.7779	169.	1775.	5812.	173.	-6890.	-3490.	0.035
18	0.25	-0.05	420. 1181.	1997. 2618.	6069. 5031.	7483. -296.	544. -270.	4869. 3056.	0.004 0.013
14	0.3008	0.7790	263.	1913.	6687.	139.	-7063.	-3576.	0.068
19	0.26	-0.02	383. 1281.	2190. 2883.	6749. 5409.	11344. 52.	699. -218.	4726. 3092.	0.003 0.027
14	0.3012	0.7798	326.	2154.	8412.	107.	-7248.	-3753.	0.102
20	0.12	0.07	369. 1466.	2526. 3283.	8385. 6675.	15697. 352.	887. -113.	4452. 2985.	0.003 0.035
15	0.3015	0.7783	189.	1881.	6411.	174.	-6710.	-3371.	0.046
3	0.04	0.09	403. 1354.	2227. 3068.	6738. 5423.	8057. -233.	461. -556.	4728. 3209.	0.098 0.006
15	0.3008	0.7809	235.	1938.	6696.	158.	-6796.	-3392.	0.067
4	0.02	0.20	414. 1408.	2297. 3164.	6718. 5317.	9608. -68.	537. -532.	4740. 3254.	0.071 0.011
15	0.3001	0.7813	272.	1989.	7498.	142.	-6899.	-3496.	0.086
5	0.18	0.36	349. 1408.	2383. 3231.	7426. 5565.	11358. 90.	635. -461.	4621. 3211.	0.069 0.014
15	0.3010	0.7804	329.	2326.	9227.	111.	-7108.	-3703.	0.106
6	0.03	0.21	450. 1535.	2863. 3699.	9292. 6900.	15209. 388.	852. -293.	4353. 2968.	0.100 0.017
15	0.3016	0.7794	386.	2520.	10530.	79.	-7347.	-4075.	0.140
7	0.19	0.39	657. 1763.	3214. 4158.	10508. 7892.	19612. 735.	1096. -143.	3892. 2710.	0.111 0.023

SWEPT/TAPERED TIP

1813

RUN PT	V/OR BIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
15	0.2997	0.7813	437.	2578.	11536.	56.	-7452.	-4112.	0.164
8	0.17	0.51	776.	3333.	11277.	22380.	1192.	3986.	0.098
			1770.	4372.	8436.	900.	-108.	2885.	0.078
15	0.3016	0.7785	143.	2728.	6354.	364.	-5469.	-648.	0.051
9	0.14	0.18	210.	3099.	6738.	958.	-850.	8277.	0.090
			2450.	3530.	5032.	-1326.	-2110.	5277.	0.007
15	0.3020	0.7785	172.	2836.	6958.	329.	-5568.	-847.	0.037
10	0.07	0.24	252.	3173.	7308.	-239.	-769.	8170.	0.099
			2482.	3717.	5493.	-1113.	-2127.	5323.	0.007
15	0.3025	0.7778	196.	2879.	9454.	282.	-5790.	-1461.	0.020
11	0.20	0.33	360.	3193.	9518.	-825.	-525.	7541.	0.126
			2391.	4008.	7095.	-859.	-1949.	5030.	0.008
15	0.3011	0.7788	276.	3028.	10428.	224.	-5939.	-1958.	0.033
12	0.21	0.34	517.	3324.	10109.	-807.	-363.	7140.	0.104
			2462.	4152.	7318.	-667.	-1956.	4899.	0.037
15	0.3011	0.7797	366.	3235.	15072.	171.	-6091.	-2342.	0.070
13	0.14	0.42	694.	3711.	14616.	-444.	-165.	6807.	0.119
			2500.	4774.	10837.	-456.	-1738.	4810.	0.033
15	0.3011	0.7802	502.	3622.	17597.	109.	-6259.	-2784.	0.095
14	-0.01	0.53	809.	3980.	16436.	1396.	36.	6327.	0.110
			2405.	4990.	12103.	-223.	-1553.	4587.	0.040
15	0.3022	0.7791	626.	3716.	19327.	64.	-6372.	-2662.	0.172
15	0.12	0.47	687.	4183.	17645.	3944.	129.	6504.	0.113
			2336.	5031.	13024.	-78.	-1491.	4897.	0.035
17	0.4004	0.8415	156.	3824.	7511.	281.	-5802.	-1465.	0.195
3	0.12	0.14	225.	3961.	7744.	3337.	-547.	6906.	0.065
			3484.	5316.	6503.	-1533.	-810.	4458.	0.014
17	0.4026	0.8393	200.	3928.	7929.	246.	-5984.	-1851.	0.157
4	0.19	0.14	276.	4125.	8398.	3082.	-407.	6572.	0.082
			3445.	5430.	6705.	-1219.	-714.	4356.	0.018

SWEPT/TAPERED TIP

-B14

RUN PT	V/OR RIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
17 5	0.4019 0.09	0.8416 0.21	146. 365. 3231.	3751. 4004. 5256.	8221. 8592. 7325.	224. 3250. -980.	-6127. -269. -618.	-2051. 6508. 4321.	0.144 0.100 0.021
17 6	0.4004 0.08	0.8433 0.27	184. 631. 3042.	3750. 4048. 5199.	10775. 10810. 8902.	175. 4082. -747.	-6293. -53. -481.	-2298. 6252. 4138.	0.132 0.003 0.024
17 7	0.3999 0.15	0.8436 0.27	246. 909. 3091.	4060. 4155. 5373.	14282. 13999. 11263.	143. 5361. -530.	-6428. 65. -342.	-2216. 6217. 4160.	0.158 0.105 0.036
17 8	0.4011 0.09	0.8424 0.30	340. 1044. 2972.	4236. 4368. 5984.	17041. 16043. 12840.	112. 7524. -226.	-6627. 266. -215.	-2477. 5985. 4069.	0.237 0.086 0.049
17 9	0.4001 -0.01	0.8418 0.30	371. 1057. 2979.	4359. 4487. 5990.	18708. 17564. 13536.	92. 9103. -79.	-6714. 339. -156.	-2519. 6059. 4124.	0.297 0.086 0.057
17 10	0.4011 0.24	0.8422 0.37	449. 1445. 3201.	4614. 4773. 6239.	21540. 20415. 15802.	57. 11908. 68.	-6806. 420. -144.	-2286. 6518. 4494.	0.334 0.077 0.062
17 11	0.4011 0.16	0.8399 0.11	207. 670. 2296.	2840. 3093. 4060.	8945. 9201. 7680.	142. 7720. -430.	-6699. 308. 162.	-2853. 6282. 3549.	0.063 0.083 0.019
17 12	0.4086 0.28	0.8320 0.28	290. 1053. 2588.	3214. 3410. 4434.	11569. 11598. 9230.	113. 10599. -182.	-6877. 514. 365.	-2927. 6042. 3317.	0.096 0.078 0.038
17 13	0.4008 0.05	0.8415 0.25	357. 1249. 2625.	3583. 3732. 4870.	13730. 13400. 10426.	81. 13939. 140.	-7083. 711. 469.	-3096. 5751. 3175.	0.163 0.083 0.051
17 14	0.4020 0.04	0.8411 0.44	402. 1314. 2753.	3821. 4059. 5345.	15480. 15105. 11858.	70. 15634. 308.	-7182. 822. 597.	-3279. 5490. 2933.	0.237 0.094 0.047

SWEPT/TAPERED TIP

-B15-

RUN PT	V/OR RIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
17	0.4027	0.8396	463.	3806.	16585.	46.	-7291.	-3207.	0.291
15	0.07	0.20	1366.	3985.	15811.	18308.	918.	5537.	0.077
			2768.	5244.	12634.	456.	631.	3093.	0.043
17	0.4031	0.8402	533.	4206.	20215.	20.	-7367.	-2854.	0.367
16	0.10	0.65	1751.	4353.	19255.	21310.	991.	5514.	0.103
			3144.	5832.	15356.	598.	561.	3507.	0.045
19	0.4009	0.8409	224.	2677.	9505.	152.	-6305.	-3062.	0.056
3	0.09	-0.05	659.	3208.	9706.	7683.	359.	4971.	0.099
			2498.	4174.	8192.	-329.	-380.	3391.	0.035
19	0.4011	0.8420	298.	2990.	11545.	124.	-6448.	-3065.	0.102
4	-0.03	0.28	843.	3601.	11706.	10358.	533.	4919.	0.102
			2551.	4762.	9718.	-56.	-170.	3873.	0.048
19	0.4025	0.8384	552.	3589.	19933.	20.	-6887.	-3103.	0.368
5	0.07	0.30	1726.	4343.	18811.	20841.	1029.	4903.	0.122
			2994.	5841.	15473.	729.	148.	6530.	0.048
19	0.4013	0.8413	475.	2883.	13439.	36.	-7005.	-3939.	0.239
6	3.40	-0.14	1391.	3565.	12791.	20043.	1198.	3910.	0.102
			2510.	4835.	10409.	707.	499.	5066.	0.063
19	0.4009	0.8432	329.	3774.	16030.	114.	-6335.	-2934.	0.196
7	-3.02	0.74	1135.	4472.	15517.	10157.	457.	5524.	0.086
			3008.	5719.	12251.	-54.	-444.	9750.	0.061
19	0.4011	0.8421	409.	3358.	15551.	75.	-6708.	-3422.	0.202
8	0.15	0.19	1230.	4061.	15152.	15795.	878.	4870.	0.096
			2775.	5394.	11979.	397.	83.	9226.	0.061
19	0.4012	0.8410	541.	4166.	23455.	28.	-6421.	-2155.	0.295
9	0.22	0.37	1578.	4938.	22061.	14285.	518.	6539.	0.089
			3464.	6558.	16955.	252.	-605.	7469.	0.056
19	0.4008	0.8421	641.	4429.	23184.	-16.	-6440.	-1765.	0.366
10	0.14	0.33	1532.	5205.	21759.	17945.	496.	6950.	0.092
			3770.	6426.	16633.	429.	-856.	3840.	0.057

SWEPT/TAPERED TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	V4 ACC T14 ACC LN4 ACC
19	0.4021	0.8407	356.	2603.	11480.	82.	-6774.	-3678.	0.157
11	0.12	-0.05	973.	3175.	11186.	14403.	966.	5321.	0.076
			2215.	4267.	9239.	274.	376.	-814.	0.032
19	0.4031	0.8400	398.	2713.	12575.	68.	-6859.	-3788.	0.186
12	0.18	0.19	1046.	3316.	12156.	16543.	1061.	5245.	0.077
			2266.	4449.	10075.	416.	451.	-1473.	0.041
19	0.4014	0.8417	446.	2961.	14040.	50.	-6879.	-3688.	0.230
13	0.16	0.22	1121.	3676.	13628.	18806.	1108.	5356.	0.075
			2466.	5010.	11067.	527.	496.	-2214.	0.052
19	0.4009	0.8427	486.	3057.	16044.	38.	-6998.	-3700.	0.281
14	0.29	0.25	1336.	3788.	15389.	21629.	1241.	5339.	0.087
			2624.	5241.	12535.	720.	637.	-3327.	0.059
19	0.4014	0.8425	584.	3225.	18149.	7.	-7018.	-3092.	0.323
15	0.22	0.38	751.	4021.	17539.	24477.	1265.	5835.	0.094
			2360.	5632.	14147.	832.	624.	-3847.	0.063
19	0.4005	0.8441	622.	3282.	18064.	-29.	-7107.	-2712.	0.350
16	0.14	0.36	0.	4110.	17528.	24756.	1337.	6010.	0.098
			2994.	5701.	14392.	1023.	670.	-3699.	0.066
19	0.4004	0.8399	218.	3404.	9300.	312.	-5270.	-859.	0.147
17	-0.08	0.06	420.	4008.	8677.	411.	-779.	8753.	0.069
			3484.	5081.	6983.	-1453.	-1602.	-2287.	0.037
19	0.4004	0.8428	216.	3456.	11474.	273.	-5390.	-1230.	0.103
18	0.07	0.21	545.	4063.	10907.	-656.	-627.	8450.	0.068
			3580.	5143.	8737.	-1277.	-1527.	-2741.	0.036
19	0.4021	0.8413	255.	3538.	13656.	220.	-5574.	-1963.	0.027
19	0.26	0.14	646.	4060.	13185.	-1083.	-383.	7673.	0.085
			3517.	5321.	10448.	-1067.	-1277.	-3504.	0.051
19	0.4012	0.8411	331.	3970.	16800.	164.	-5698.	-2390.	0.085
20	0.20	0.31	998.	4540.	15644.	-1082.	-208.	791.	0.062
			3568.	5916.	11944.	-895.	-1101.	-4149.	0.036

SWEPT/TAPERED TIP

-B17-

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
19	0.4006	0.8425	416.	4110.	21369.	103.	-5795.	-2359.	0.154
21	0.20	0.25	1244.	4724.	20079.	272.	-86.	7112.	0.050
			3535.	6127.	15950.	-686.	-1047.	-4636.	0.023
19	0.3996	0.8457	544.	4345.	23569.	62.	-5842.	-2103.	0.229
22	-0.05	0.28	1536.	4847.	21549.	1711.	-54.	7350.	0.073
			3562.	6317.	16483.	-597.	-1082.	-4493.	0.020
19	0.3750	0.8242	286.	2283.	8086.	86.	-6328.	-3194.	0.065
23	0.19	0.05	538.	2742.	8278.	7892.	437.	5044.	0.058
			1880.	3608.	6809.	-278.	-189.	-6199.	0.011
19	0.3761	0.8235	347.	2666.	10870.	57.	-6474.	-3274.	0.099
24	0.08	0.29	820.	3188.	10931.	10743.	622.	5556.	0.068
			2145.	4170.	8699.	-10.	-41.	-6187.	0.026
19	0.3755	0.8236	356.	2819.	12426.	54.	-6633.	-3430.	0.166
25	0.30	0.10	857.	3434.	12228.	14425.	807.	5230.	0.062
			2140.	4633.	9602.	350.	97.	-6436.	0.030
19	0.3738	0.8267	457.	3189.	17834.	34.	-6799.	-3257.	0.246
26	0.11	0.27	1389.	3859.	17051.	18900.	1017.	5296.	0.072
			2563.	5176.	13745.	578.	264.	-6558.	0.057
19	0.3735	0.8272	700.	3326.	17985.	-38.	-6882.	-2361.	0.357
27	-0.02	0.29	39.	4062.	17392.	24753.	1069.	6298.	0.072
			2690.	5304.	14081.	922.	211.	-5918.	0.074
19	0.3727	0.8281	565.	3207.	17916.	6.	-6845.	-2803.	0.296
28	0.21	0.30	1619.	3956.	16992.	22236.	1049.	5762.	0.075
			2574.	5326.	13510.	770.	293.	-6439.	0.058
19	0.3738	0.8271	129.	2832.	6330.	311.	-5587.	-1730.	0.138
29	0.05	0.05	271.	3402.	6847.	3302.	-405.	7539.	0.034
			2696.	4248.	5438.	-1332.	-981.	-5550.	0.012
19	0.3752	0.8246	143.	2646.	6578.	267.	-5674.	-1882.	0.120
30	0.15	-0.18	246.	3268.	6764.	3149.	-315.	7315.	0.048
			2585.	4220.	5654.	-1082.	-970.	-5491.	0.010

SWEPT/TAPERED TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
19 31	0.3734 0.21	0.8269 0.01	145. 366. 2620.	2726. 3395. 4265.	7264. 7143. 6013.	221. 3649. -844.	-5812. -167. -875.	-2152. 7073. -5635.	0.106 0.043 0.015
19 32	0.3752 0.27	0.8243 0.12	209. 601. 2553.	2835. 3433. 4330.	9686. 9386. 7527.	173. 4463. -611.	-5952. -1. -751.	-2344. 6659. -5864.	0.092 0.040 0.018
19 33	0.3738 0.44	0.8264 0.28	250. 723. 2487.	3040. 3511. 4594.	12359. 12140. 9711.	128. 6017. -349.	-6126. 219. -558.	-2497. 6374. -6124.	0.065 0.066 0.021
19 34	0.3738 0.34	0.8270 0.29	351. 965. 2621.	3334. 3916. 5139.	15431. 14854. 11676.	104. 8147. -96.	-6256. 393. -412.	-2680. 6132. -6263.	0.120 0.061 0.033
19 35	0.3731 0.25	0.8254 0.31	517. 1406. 2845.	3555. 4151. 5508.	20255. 18948. 14671.	54. 12251. 175.	-6407. 555. -307.	-2503. 6227. -6008.	0.225 0.067 0.048
20 3	0.3605 0.29	0.8182 0.42	446. 1181. 2542.	3402. 4093. 5365.	16933. 16186. 17137.	173. 14557. 382.	-6675. 801. -174.	-3258. 4382. -2073.	0.184 0.124 0.045
20 4	0.3625 1.24	0.8136 0.37	443. 1079. 2466.	3224. 3963. 5232.	15388. 14902. 11512.	177. 14834. 399.	-6722. 845. -95.	-3343. 4278. -1503.	0.176 0.128 0.041
20 5	0.3631 1.09	0.8126 0.31	443. 1212. 2535.	3312. 4013. 5245.	16541. 15791. 11978.	161. 15630. 433.	-6720. 345. -107.	-3185. 4515. -1718.	0.195 0.133 0.044
20 6	0.3653 0.13	0.8080 0.44	454. 1217. 2522.	3412. 4074. 5334.	17427. 16600. 12474.	177. 14037. 317.	-6634. 760. -181.	-3115. 4663. -664.	0.196 0.141 0.049
20 7	0.3645 1.06	0.8095 0.23	439. 1063. 2370.	3054. 3701. 4859.	14193. 13646. 10263.	176. 13505. 306.	-6663. 767. -177.	-3270. 4608. -359.	0.153 0.122 0.038

SWEPT/TAPERED TIP

-B19

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
21 3	0.3764 0.16	0.8255 0.49	521. 1453. 3076.	3804. 4520. 5776.	20591. 19335. 15441.	11. 12039. 184.	-1367. 401. -589.	-2544. 5035. 16550.	0.241 0.119 0.057
21 4	0.3786 0.13	0.8220 0.42	593. 1394. 3077.	3995. 4731. 6024.	21551. 20302. 15580.	56. 14881. 297.	-6384. 382. -586.	-1973. 5858. 18749.	0.245 0.138 0.047
21 5	0.3753 0.21	0.8263 0.30	334. 777. 1826.	2327. 2884. 3791.	9460. 9454. 7940.	133. 14463. 184.	-6805. 928. 339.	-3635. 4201. 16967.	0.130 0.107 0.034
21 6	0.3770 0.17	0.8264 0.29	403. 982. 2003.	2485. 3125. 4196.	11237. 10818. 8800.	98. 19362. 564.	-6988. 1136. 499.	-3931. 3826. 16429.	0.194 0.106 0.030
21 7	0.3749 -0.01	0.8278 0.47	478. 1393. 2275.	2752. 3485. 4685.	14779. 14225. 11650.	74. 24671. 902.	-7173. 1348. 637.	-4027. 3625. 15500.	0.259 0.133 0.024
21 8	0.3746 0.06	0.8267 0.32	431. 1127. 2142.	2598. 3257. 4415.	12779. 12264. 10105.	80. 21997. 698.	-7049. 1206. 498.	-3928. 3943. 17032.	0.237 0.102 0.025
21 9	0.3757 0.20	0.8218 0.21	255. 462. 1515.	1859. 2328. 3160.	6670. 6904. 5888.	164. 9938. -70.	-6655. 760. 101.	-3562. 4759. 18303.	0.060 0.069 0.030
21 10	0.3753 0.16	0.8272 0.35	436. 1174. 2204.	2592. 3276. 4424.	12781. 12353. 10194.	85. 22089. 706.	-7062. 1232. 522.	-4000. 3988. 17660.	0.232 0.102 0.027
21 11	0.4007 0.03	0.8420 0.20	314. 621. 1788.	1911. 2366. 3112.	7046. 7123. 6082.	134. 9530. -162.	-6604. 732. 95.	-3384. 5123. 18802.	0.040 0.065 0.030
21 12	0.3558 0.24	0.8418 0.24	369. 725. 1790.	2021. 2478. 3360.	8198. 8013. 6857.	30. 13930. 177.	-6802. 939. 250.	-3638. 4938. 18578.	0.101 0.063 0.039

SWEPT/TAPERED TIP

-B20-

RUN PT	V/OR RIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
21 13	0.4014 0.25	0.8412 0.14	394. 1187. 2204.	2511. 3129. 4227.	11635. 11428. 9557.	68. 18822. 486.	-6972. 1150. 444.	-3829. 4597. 18143.	0.187 0.099 0.028
21 14	0.4007 0.36	0.8425 0.41	450. 1215. 2315.	2623. 3322. 4597.	12395. 12025. 9901.	72. 21636. 637.	-7038. 1229. 543.	-3879. 4546. 17908.	0.217 0.091 0.029
21 15	0.3579 0.02	0.8453 0.36	493. 1422. 2439.	2757. 3530. 4895.	14059. 13601. 11271.	69. 24516. 803.	-7128. 1334. 623.	-3920. 4490. 18368.	0.259 0.098 0.027
21 16	0.3758 0.05	0.8941 0.03	136. 350. 3404.	3320. 4150. 5342.	6716. 7873. 8453.	345. 4218. -1583.	-5438. -580. -1342.	-851. 9754. 18224.	0.197 0.005 0.025
21 17	0.3756 0.18	0.8953 0.08	176. 385. 3471.	3512. 4378. 5409.	7576. 8774. 8826.	274. 3975. -1344.	-5515. -511. -1309.	-984. 9763. 16664.	0.198 0.008 0.029
21 18	0.3760 0.17	0.8958 0.21	162. 518. 3339.	3562. 4329. 5351.	7736. 9162. 9764.	246. 4369. -1064.	-5686. -308. -1155.	-1345. 9466. 13696.	0.207 0.012 0.035
21 19	0.3758 0.13	0.8954 0.22	204. 645. 3299.	3588. 4364. 5253.	9167. 10096. 10512.	202. 5201. -789.	-5830. -136. -1047.	-1571. 9173. 11500.	0.188 0.016 0.035
21 20	0.3764 0.11	0.8950 0.36	298. 1046. 3387.	3630. 4359. 5270.	12447. 12480. 11442.	161. 6717. -577.	-5952. 33. -894.	-1638. 9020. 8898.	0.161 0.031 0.033
21 21	0.3756 0.23	0.8940 0.30	404. 1506. 3307.	3544. 4111. 5096.	15221. 14956. 12820.	122. 9819. -272.	-6155. 280. -684.	-1987. 8595. 7989.	0.110 0.041 0.038
21 22	0.3748 -0.00	0.8972 0.35	529. 1701. 3551.	3725. 4311. 5313.	17760. 17295. 14179.	52. 11947. -150.	-6192. 315. -714.	-1817. 8831. 6130.	0.133 0.054 0.049

SWEPT/TAPERED TIP

RUN PT	V/OR RIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
21	0.3766	0.8946	547.	3632.	19182.	99.	-6279.	-1812.	0.130
23	0.08	0.53	1892.	4183.	18758.	13591.	413.	8791.	0.057
			3529.	5225.	15244.	-61.	-573.	3244.	0.053
21	0.3769	0.8939	250.	2634.	7462.	117.	-6198.	-2285.	0.177
24	0.26	0.16	837.	3216.	8180.	9412.	311.	8478.	0.015
			2517.	4114.	7671.	-517.	-357.	2070.	0.031
21	0.3753	0.8951	290.	2943.	9691.	97.	-6359.	-2334.	0.141
25	0.10	0.20	1274.	3517.	10324.	12920.	506.	8236.	0.026
			2854.	4553.	9275.	-204.	-195.	1724.	0.034
21	0.3751	0.8963	375.	3200.	12381.	71.	-6564.	-2425.	0.116
26	-0.01	0.35	1500.	3742.	12580.	17235.	755.	7934.	0.033
			3050.	4739.	10429.	134.	64.	1482.	0.038
21	0.3762	0.8954	422.	3266.	13914.	67.	-6691.	-2552.	0.102
27	0.07	0.32	1649.	3808.	14058.	19978.	916.	7724.	0.038
			3097.	4762.	11448.	304.	294.	911.	0.044
21	0.3764	0.8950	493.	3568.	15990.	61.	-6726.	-2154.	0.124
28	0.08	0.39	1724.	4097.	16120.	23380.	952.	8126.	0.041
			3255.	4899.	13344.	429.	345.	1053.	0.052
21	0.3765	0.8951	527.	3513.	16358.	41.	-6753.	-1986.	0.135
29	0.09	0.32	1937.	4063.	16522.	25013.	980.	8299.	0.044
			3254.	4912.	13613.	504.	451.	1628.	0.053
21	0.3778	0.8920	316.	2462.	8405.	107.	-6586.	-2677.	0.110
30	3.33	0.03	1191.	2912.	8842.	15320.	765.	7782.	0.023
			2635.	3803.	7987.	-41.	457.	893.	0.031
21	0.3757	0.8976	340.	2318.	9099.	77.	-6731.	-2828.	0.090
31	4.63	0.01	1444.	2722.	9277.	17965.	940.	7626.	0.029
			2592.	3553.	7783.	127.	601.	745.	0.035
21	0.3753	0.8970	317.	2116.	8148.	74.	-6745.	-3065.	0.085
32	0.01	0.21	1095.	2590.	8483.	17757.	956.	7411.	0.019
			2226.	3491.	7520.	69.	657.	808.	0.029

SWEPT/TAPERED TIP

PUN PT	V/OR RIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
21 33	0.3769 0.13	0.8965 0.41	355. 1221. 2355.	2293. 2821. 3663.	9073. 9290. 8007.	56. 20787. 217.	-6841. 1084. 805.	-3073. 7257. 793.	0.075 0.022 0.034
21 34	0.3757 0.30	0.8962 0.22	398. 1332. 2424.	2341. 2846. 3723.	10203. 10199. 8969.	38. 23812. 397.	-6957. 1239. 971.	-3165. 6983. 565.	0.056 0.073 0.038
21 35	0.3748 0.09	0.8989 0.33	446. 946. 2629.	2548. 3077. 4033.	11409. 11833. 10351.	34. 27009. 571.	-7034. 1327. 1030.	-3065. 6994. 739.	0.059 0.030 0.047
21 36	0.3750 -0.07	0.8958 0.14	472. 2. 2663.	2654. 3158. 4049.	11832. 12097. 10454.	30. 27290. 645.	-7056. 1348. 1020.	-2975. 7017. 729.	0.052 0.032 0.048
21 37	0.3755 0.01	0.8950 0.22	222. 897. 1953.	1956. 2433. 3372.	6109. 6779. 6163.	113. 12065. -308.	-6541. 734. 501.	-2854. 7700. 1192.	0.135 0.018 0.027
22 3	0.3006 0.11	0.7840 0.23	323. 471. 1816.	2332. 2741. 3394.	7696. 7709. 5640.	8. 6466. -280.	-6253. 189. -827.	-2837. 5644. 6888.	0.046 0.085 0.018
22 4	0.3030 0.08	0.7797 0.27	317. 493. 1881.	2450. 2990. 3909.	9274. 9137. 6983.	-4. 8279. -33.	-6379. 318. -797.	-2913. 5563. 7177.	0.070 0.077 0.022
22 5	0.3024 0.16	0.7918 0.54	326. 515. 1927.	2631. 3299. 4280.	10730. 10454. 7721.	-9. 10550. 224.	-6526. 489. -685.	-3103. 5381. 7553.	0.103 0.060 0.027
22 6	0.3021 -2.95	0.7822 0.64	184. 415. 1725.	2260. 2764. 3508.	7773. 7801. 6352.	117. 7236. -288.	-6290. 245. -677.	-2864. 5874. 7876.	0.049 0.077 0.008
22 7	0.3029 -2.97	0.7796 0.78	308. 437. 1824.	2419. 3002. 3758.	8698. 8488. 6653.	27. 9344. 18.	-6471. 430. -571.	-3218. 5533. 8401.	0.101 0.034 0.016

SWEPT/TAPERED TIP

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RUN PT	V/OR BIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
22 R	0.3030 -3.34	0.7796 -1.46	312. 474. 1843.	2498. 3131. 3943.	8544. 8614. 6694.	31. 8916. -29.	-6412. 373. -629.	-2884. 5866. 8749.	0.086 0.050 0.015
22 9	0.3038 -3.06	0.7782 0.81	291. 461. 1886.	2632. 3305. 4204.	10186. 10070. 7737.	1. 11440. 225.	-6582. 570. -465.	-3389. 5415. 8838.	0.128 0.045 0.021
22 10	0.3027 -6.99	0.7786 0.78	153. 658. 1780.	2440. 2917. 3747.	6454. 6976. 6018.	105. 7251. -300.	-6259. 232. -693.	-2664. 6308. 9569.	0.034 0.061 0.025
22 11	0.3037 -7.13	0.7787 -1.09	232. 837. 1793.	2400. 2957. 3629.	7480. 7531. 6191.	104. 7178. -311.	-6287. 267. -635.	-2613. 6313. 9647.	0.031 0.059 0.028
22 12	0.3030 -6.41	0.7783 -0.84	192. 789. 1818.	2524. 3202. 4213.	7933. 7774. 6688.	77. 10066. 6.	-6446. 431. -550.	-2914. 6060. 9684.	0.075 0.036 0.031
22 13	0.3033 -6.12	0.7782 1.01	200. 711. 1670.	2412. 3090. 3991.	7744. 8015. 6602.	73. 10482. 45.	-6505. 502. -460.	-3234. 5807. 9582.	0.085 0.052 0.034
22 14	0.3040 -5.80	0.7785 1.26	259. 777. 1624.	2374. 3230. 4102.	8743. 8727. 7219.	43. 13275. 311.	-6683. 703. -300.	-3677. 5432. 9131.	0.116 0.059 0.039
22 15	0.3010 -2.95	0.7825 0.51	236. 412. 1312.	1870. 2414. 3128.	7291. 7400. 5770.	46. 12250. 84.	-6686. 713. -117.	-3531. 5577. 9128.	0.077 0.031 0.040
22 16	0.3028 -3.02	0.7817 0.77	295. 556. 1470.	1982. 2698. 3651.	8263. 8358. 6708.	7. 15604. 360.	-6838. 870. -26.	-3785. 5297. 8970.	0.106 0.058 0.039
22 17	0.3022 -2.90	0.7844 0.67	471. 904. 1674.	2178. 3054. 4125.	9718. 9917. 7632.	-60. 19835. 650.	-7054. 1116. 182.	-4162. 4838. 8727.	0.141 0.086 0.034

SWEPT/TAPERED TIP

-B24-

RUN PT	V/DR RIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
22 18	0.4048 -3.10	0.8410 0.66	389. 1017. 2662.	3065. 3582. 4568.	11321. 11243. 8906.	43. 12711. 5.	-6550. 664. -140.	-2558. 6119. 7841.	0.093 0.070 0.037
22 19	0.4037 -2.91	0.8431 0.67	503. 1304. 2778.	3256. 3866. 5095.	13603. 13538. 10747.	7. 16286. 285.	-6716. 874. 5.	-3174. 5946. 4202.	0.174 0.078 0.043
22 20	0.4015 -2.93	0.8449 0.69	286. 1035. 2785.	3172. 3725. 4905.	11977. 12090. 9600.	35. 13898. 7.	-6537. 690. -167.	-2769. 6538. 2787.	0.128 0.058 0.036
22 21	0.4029 -3.10	0.8424 -1.68	354. 1144. 2675.	3140. 3681. 4718.	12356. 12071. 9303.	10. 13967. 68.	-6571. 701. -173.	-2787. 6510. 1872.	0.108 0.052 0.036
22 22	0.4032 -2.88	0.8435 0.57	280. 879. 2598.	3030. 3532. 4529.	10751. 10954. 8670.	42. 9405. -329.	-6270. 358. -542.	-2267. 6996. 1031.	0.055 0.056 0.016
22 23	0.4085 -3.12	0.8371 0.61	345. 1096. 2920.	3549. 4108. 5175.	13421. 13199. 10004.	19. 12153. -41.	-6416. 525. -430.	-2532. 6507. 303.	0.137 0.066 0.032
22 24	0.4036 -3.05	0.8437 -1.57	325. 1271. 3062.	3539. 4115. 5221.	13984. 13799. 10471.	44. 11825. -117.	-6405. 535. -377.	-2440. 6625. 99.	0.111 0.054 0.034
22 25	0.4029 -2.65	0.8461 0.84	366. 1409. 3014.	3631. 4150. 5290.	16933. 16707. 13335.	-51. 16888. 256.	-6635. 787. -166.	-2565. 6464. -433.	0.196 0.035 0.048
53 3	0.3883 2.01	0.8255 -0.03	407. 1256. NA	NA 3735. NA	NA NA NA	102. 16273. NA	NA 843. NA	NA NA NA	0.168 0.105 0.047
53 4	0.3878 1.94	0.8256 -0.07	412. 1223. NA	NA 3757. NA	NA NA NA	97. 16429. NA	NA 839. NA	NA NA NA	0.154 0.101 0.047

SWEPT/TAPERED TIP

RUN PT	V/OR RIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
53 5	0.3904 4.64	0.8228 -0.06	407. 1361. NA	NA 3200. NA	NA NA NA	88. 16726. NA	NA 956. NA	NA NA NA	0.150 0.107 0.047
53 6	0.3894 -0.82	0.8231 -0.01	434. 1219. NA	NA 4329. NA	NA NA NA	93. 15431. NA	NA 641. NA	NA NA NA	0.242 0.077 0.042
53 7	0.3924 1.44	0.8206 -7.22	416. 1267. NA	NA 3902. NA	NA NA NA	87. 16023. NA	NA 814. NA	NA NA NA	0.195 0.101 0.042
53 8	0.3916 2.08	0.8222 1.74	392. 1377. NA	NA 3684. NA	NA NA NA	105. 16514. NA	NA 855. NA	NA NA NA	0.178 0.106 0.047
53 9	0.3918 1.59	0.8215 -0.06	411. 1263. NA	NA 3873. NA	NA NA NA	99. 16257. NA	NA 816. NA	NA NA NA	0.181 0.103 0.048
54 3	0.3866 1.86	0.8283 -0.52	391. 1215. NA	NA 3740. NA	NA NA NA	104. 16761. NA	NA 937. NA	NA NA NA	0.168 0.087 0.061
54 4	0.3864 0.79	0.8289 -0.85	456. 1381. NA	NA 4211. NA	NA NA NA	81. 18901. NA	NA 398. NA	NA NA NA	0.243 0.086 0.053
54 5	0.3883 3.05	0.8259 -0.27	349. 1117. NA	NA 3297. NA	NA NA NA	117. 14856. NA	NA 852. NA	NA NA NA	0.124 0.087 0.052
54 6	0.3886 2.34	0.8261 -0.54	386. 1098. NA	NA 3374. NA	NA NA NA	100. 16784. NA	NA 929. NA	NA NA NA	0.153 0.092 0.043
54 7	0.3908 1.18	0.8266 -0.51	418. 1369. NA	NA 4368. NA	NA NA NA	97. 15499. NA	NA 686. NA	NA NA NA	0.227 0.089 0.051

SWEPT/TAPERED TIP

RUN PT	V/OR RIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	MV4 ACC TL4 ACC LN4 ACC
54 8	0.3911 1.85	0.8232 -0.52	388. 1249. NA	NA 3713. NA	NA NA NA	103. 16260. NA	NA 904. NA	NA NA NA	0.179 0.108 0.051
54 9	0.3897 1.81	0.8250 -1.46	392. 1196. NA	NA 3833. NA	NA NA NA	97. 16146. NA	NA 863. NA	NA NA NA	0.193 0.099 0.051
54 10	0.3913 2.25	0.8227 0.39	372. 1301. NA	NA 3675. NA	NA NA NA	111. 16468. NA	NA 875. NA	NA NA NA	0.141 0.110 0.056
54 11	0.3932 1.92	0.8201 -0.49	386. 1271. NA	NA 3871. NA	NA NA NA	104. 16259. NA	NA 852. NA	NA NA NA	0.168 0.104 0.056
54 12	0.4011 1.84	0.8277 -0.35	384. 1289. NA	NA 3826. NA	NA NA NA	105. 16145. NA	NA 883. NA	NA NA NA	0.176 0.107 0.055
54 13	0.3836 1.96	0.8139 -0.60	394. 1184. NA	NA 3742. NA	NA NA NA	100. 16327. NA	NA 848. NA	NA NA NA	0.180 0.101 0.056
54 16	0.2499 0.26	0.7520 0.31	198. 468. NA	NA 2230. NA	NA NA NA	160. 8238. NA	NA 466. NA	NA NA NA	0.042 0.044 0.013
54 17	0.2502 0.14	0.7526 0.33	276. 331. NA	NA 2164. NA	NA NA NA	130. 10934. NA	NA 674. NA	NA NA NA	0.091 0.037 0.015
54 18	0.2487 0.10	0.7539 0.60	348. 500. NA	NA 2492. NA	NA NA NA	101. 14699. NA	NA 909. NA	NA NA NA	0.143 0.054 0.025
54 19	0.2496 -0.06	0.7536 -2.91	261. 395. NA	NA 2374. NA	NA NA NA	127. 11310. NA	NA 665. NA	NA NA NA	0.119 0.040 0.019

SWEPT/TAPERED TIP

1827-

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	MV4 ACC YL4 ACC LN4 ACC
54 20	0.2509 0.44	0.7508 3.10	290. 673. NA	NA 2273. NA	NA NA NA	131. 11705. NA	NA 699. NA	NA NA NA	0.090 0.054 0.015
54 21	0.2704 0.05	0.7633 0.43	294. 377. NA	NA 2370. NA	NA NA NA	163. 7940. NA	NA 375. NA	NA NA NA	0.038 0.050 0.009
54 22	0.2703 0.16	0.7622 0.38	276. 357. NA	NA 2579. NA	NA NA NA	137. 10496. NA	NA 550. NA	NA NA NA	0.084 0.044 0.016
54 23	0.2704 0.10	0.7627 0.63	350. 522. NA	NA 2833. NA	NA NA NA	103. 14312. NA	NA 817. NA	NA NA NA	0.129 0.054 0.021
54 24	0.2711 0.06	0.7618 0.36	161. 318. NA	NA 2667. NA	NA NA NA	220. 4176. NA	NA -80. NA	NA NA NA	0.058 0.017 0.015
54 25	0.2702 0.11	0.7639 0.41	212. 399. NA	NA 2927. NA	NA NA NA	178. 5482. NA	NA 72. NA	NA NA NA	0.073 0.048 0.014
54 26	0.2698 0.04	0.7631 0.55	302. 471. NA	NA 3057. NA	NA NA NA	147. 7454. NA	NA 238. NA	NA NA NA	0.129 0.044 0.019
55 3	0.2503 0.13	0.8746 0.44	223. 712. NA	NA 2287. NA	NA NA NA	137. 11274. NA	NA 573. NA	NA NA NA	0.050 0.038 0.039
55 4	0.2496 0.40	0.8757 0.50	308. 734. NA	NA 2421. NA	NA NA NA	105. 15369. NA	NA 863. NA	NA NA NA	0.080 0.057 0.032
55 5	0.2494 0.14	0.8757 0.43	419. 775. NA	NA 2328. NA	NA NA NA	76. 21625. NA	NA 1201. NA	NA NA NA	0.074 0.076 0.036

SWEPT/TAPERED TIP

RUN PT	V/DR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
55 6	0.2498 0.23	0.8762 0.59	177. 647. NA	NA 2466. NA	NA NA NA	198. 6173. NA	NA 139. NA	NA NA NA	0.042 0.040 0.038
55 7	0.2497 0.11	0.8766 0.44	259. 960. NA	NA 2546. NA	NA NA NA	158. 9425. NA	NA 395. NA	NA NA NA	0.100 0.082 0.038
55 8	0.2499 0.19	0.8759 0.53	381. 1141. NA	NA 2565. NA	NA NA NA	126. 12239. NA	NA 629. NA	NA NA NA	0.136 0.112 0.031
55 9	0.2409 0.22	0.8133 0.23	169. 346. NA	NA 2573. NA	NA NA NA	195. 5023. NA	NA 25. NA	NA NA NA	0.089 0.003 0.019
55 12	0.2492 0.27	0.8133 0.33	207. 509. NA	NA 2313. NA	NA NA NA	138. 9654. NA	NA 467. NA	NA NA NA	0.066 0.003 0.024
55 13	0.2495 0.21	0.8141 0.55	297. 470. NA	NA 2443. NA	NA NA NA	106. 12974. NA	NA 698. NA	NA NA NA	0.105 0.007 0.022
55 14	0.2494 0.15	0.8161 0.51	375. 653. NA	NA 2623. NA	NA NA NA	93. 17178. NA	NA 989. NA	NA NA NA	0.137 0.013 0.032
55 15	0.2506 0.16	0.8119 0.35	169. 378. NA	NA 2601. NA	NA NA NA	195. 5069. NA	NA 27. NA	NA NA NA	0.081 0.003 0.018
55 16	0.2500 0.17	0.8141 0.28	227. 553. NA	NA 2630. NA	NA NA NA	155. 6743. NA	NA 205. NA	NA NA NA	0.126 0.012 0.021
55 17	0.2501 0.06	0.8137 0.49	317. 688. NA	NA 2725. NA	NA NA NA	124. 9310. NA	NA 424. NA	NA NA NA	0.162 0.017 0.023

SWEPT/TAPERED TIP

CUA PT	V/GR RIC	MAT PLS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	TL4 ACC TL4 ACC LNG ACC
55 18	0.3766 3.43	0.8302 0.11	420. 1277. NA	NA 3564. NA	NA NA NA	67. 19013. NA	NA 1047. NA	NA NA NA	0.175 0.120 0.044
55 19	0.3776 -3.14	0.8286 0.83	300. 1026. NA	NA 4348. NA	NA NA NA	124. 5727. NA	NA 310. NA	NA NA NA	0.154 0.096 0.035
55 22	0.3742 0.32	0.8999 0.35	267. 1216. NA	NA 3664. NA	NA NA NA	110. 12715. NA	NA 573. NA	NA NA NA	0.154 0.019 0.050
55 23	0.3759 0.05	0.8976 0.42	360. 1447. NA	NA 4032. NA	NA NA NA	84. 17288. NA	NA 787. NA	NA NA NA	0.124 0.022 0.055
55 25	0.3744 -3.22	0.8970 0.61	282. 1363. NA	NA 4210. NA	NA NA NA	125. 10503. NA	NA 336. NA	NA NA NA	0.123 0.024 0.039
55 26	0.3754 3.39	0.8385 0.15	430. 1719. NA	NA 3558. NA	NA NA NA	43. 23854. NA	NA 1213. NA	NA NA NA	0.082 0.023 0.057
55 27	0.3749 0.13	0.8998 0.07	158. 971. NA	NA 3882. NA	NA NA NA	110. 10916. NA	NA 227. NA	NA NA NA	0.150 0.046 0.051
55 28	0.3741 0.13	0.9374 0.16	218. 1219. NA	NA 3951. NA	NA NA NA	53. 14584. NA	NA 413. NA	NA NA NA	0.132 0.061 0.048
55 29	0.3753 0.13	0.9385 0.45	266. 1531. NA	NA 3980. NA	NA NA NA	27. 16765. NA	NA 535. NA	NA NA NA	0.134 0.066 0.045
55 30	0.3767 0.20	0.9366 0.30	321. 1624. NA	NA 4132. NA	NA NA NA	3. 19310. NA	NA 659. NA	NA NA NA	0.141 0.063 0.046

SWEPT/TAPERED TIP

PUN PT	V/OR RIC	MAT PLS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	F5 OSC F6 OSC F7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	W4 ACC T14 ACC I14 ACC
55 31	0.3767 0.21	0.5369 0.42	81. 117. NA	NA 492. NA	NA NA NA	293. 2931. NA	NA 522. NA	NA NA NA	0.022 0.009 0.003
55 34	0.3740 -0.01	0.9400 0.19	355. 1467. NA	NA 3734. NA	NA NA NA	-15. 23241. NA	NA 891. NA	NA NA NA	0.119 0.051 0.056
55 35	0.3752 0.18	0.9408 0.38	174. 1044. NA	NA 4283. NA	NA NA NA	109. 10038. NA	NA 109. NA	NA NA NA	0.189 0.067 0.055
55 36	0.3767 -0.09	0.9378 0.34	284. 1601. NA	NA 4584. NA	NA NA NA	44. 13575. NA	NA 298. NA	NA NA NA	0.201 0.098 0.048
55 37	0.3749 0.03	0.9411 0.46	346. 1768. NA	NA 4651. NA	NA NA NA	18. 15719. NA	NA 392. NA	NA NA NA	0.205 0.111 0.056
55 38	0.3737 -0.03	0.9422 0.50	207. 1260. NA	NA 4439. NA	NA NA NA	84. 11307. NA	NA 172. NA	NA NA NA	0.104 0.082 0.056
55 39	0.3762 0.02	0.9393 0.30	359. 1906. NA	NA 4609. NA	NA NA NA	17. 15545. NA	NA 398. NA	NA NA NA	0.215 0.116 0.057
55 40	0.3732 0.17	0.9434 0.30	382. 1849. NA	NA 4507. NA	NA NA NA	8. 16815. NA	NA 479. NA	NA NA NA	0.205 0.107 0.053
55 41	0.3751 0.01	0.9399 0.03	30. 123. NA	NA 593. NA	NA NA NA	291. 2892. NA	NA 506. NA	NA NA NA	0.017 0.003 0.003
56 3	0.3772 0.24	0.9653 0.36	263. 1416. NA	NA 4338. NA	NA NA NA	49. 16642. NA	NA 327. NA	NA NA NA	0.135 0.081 0.058

SWEPT/TAPERED TIP

LINE PT	V/MP RIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	F5 OSC F6 OSC F7 OSC	PL MEAN Q MEAN N3 MEAN	P5 MEAN P6 MEAN P7 MEAN	F5 MEAN F6 MEAN F7 MEAN	WV4 ACC TL4 ACC LP4 ACC
56 4	0.3766 0.39	0.9658 0.33	338. 1627. NA	NA 4650. NA	NA NA NA	-7. 21622. NA	NA 436. NA	NA NA NA	0.167 0.105 0.055
56 5	0.3733 0.34	0.9690 0.52	330. 1782. NA	NA 4662. NA	NA NA NA	-38. 24797. NA	NA 564. NA	NA NA NA	0.159 0.128 0.063
56 6	0.3745 0.25	0.9689 0.28	396. 1912. NA	NA 4847. NA	NA NA NA	-55. 26240. NA	NA 585. NA	NA NA NA	0.195 0.145 0.077
56 7	0.3740 0.10	0.9699 0.50	309. 1730. NA	NA 4481. NA	NA NA NA	8. 19040. NA	NA 392. NA	NA NA NA	0.167 0.106 0.062
56 3	0.3758 0.20	0.9659 0.30	220. 1370. NA	NA 4859. NA	NA NA NA	104. 11802. NA	NA -33. NA	NA NA NA	0.175 0.140 0.081
56 9	0.3759 0.57	0.9668 0.48	289. 1927. NA	NA 4859. NA	NA NA NA	32. 15605. NA	NA 162. NA	NA NA NA	0.204 0.134 0.064
56 10	0.3751 0.17	0.9663 0.42	374. 2016. NA	NA 5158. NA	NA NA NA	-15. 19779. NA	NA 323. NA	NA NA NA	0.268 0.158 0.088
56 11	0.3737 0.24	0.9683 0.32	409. 2272. NA	NA 5171. NA	NA NA NA	-37. 21720. NA	NA 377. NA	NA NA NA	0.356 0.150 0.044
56 3	0.2093 1.75	0.7819 -0.07	372. 579. NA	NA 4465. NA	NA NA NA	74. 10161. NA	NA -5965. NA	NA NA NA	0.074 0.049 0.021
56 4	0.2002 2.02	0.7831 -0.15	3304. 586. NA	NA 4223. NA	NA NA NA	-731. 10293. NA	NA -5966. NA	NA NA NA	0.066 0.049 0.021

SWEPT/TAPERED TIP

RUN PT	V/OP RIC	MAT RIS	PL OSC O OSC N3 OSC	NE OSC N6 OSC N7 OSC	ES OSC F6 OSC F7 OSC	PL MEAN O MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
60 5	0.2998 2.48	0.7823 -0.44	3505. 698. NA	NA 3774. NA	NA NA NA	-265. 10862. NA	NA -5132. NA	NA NA NA	1.049 0.066 0.017
60 6	0.3028 -0.41	0.7761 -0.32	2996. 478. NA	NA 4709. NA	NA NA NA	-1244. 3536. NA	NA -5708. NA	NA NA NA	0.077 0.065 0.025
60 7	0.3035 1.97	0.7791 -1.94	216. 586. NA	NA 4413. NA	NA NA NA	49. 10135. NA	NA -5994. NA	NA NA NA	0.079 0.055 0.021
60 8	0.3015 2.27	0.7775 1.55	3111. 705. NA	NA 4300. NA	NA NA NA	-571. 10274. NA	NA -5582. NA	NA NA NA	0.066 0.058 0.022
60 9	0.3019 2.04	0.7765 -0.10	2078. 571. NA	NA 4201. NA	NA NA NA	-289. 10151. NA	NA -5960. NA	NA NA NA	0.073 0.040 0.019
60 10	0.3001 0.22	0.7802 -0.55	1737. 566. NA	NA 5255. NA	NA NA NA	-103. 12637. NA	NA -6169. NA	NA NA NA	0.118 0.058 0.027
60 11	0.3011 -0.67	0.7790 -0.75	516. 555. NA	NA 5723. NA	NA NA NA	55. 14185. NA	NA -6215. NA	NA NA NA	0.152 0.076 0.029
60 12	0.3016 2.50	0.7777 -0.02	3120. 626. NA	NA 3340. NA	NA NA NA	-555. 7837. NA	NA -5826. NA	NA NA NA	0.043 0.064 0.009
60 13	0.3034 2.07	0.7729 -0.17	2926. 580. NA	NA 4315. NA	NA NA NA	-1865. 11054. NA	NA -5930. NA	NA NA NA	0.087 0.063 0.023
60 14	0.3020 2.61	0.7772 -0.18	2841. 603. NA	NA 3729. NA	NA NA NA	-1896. 10897. NA	NA -6113. NA	NA NA NA	0.054 0.065 0.018

SWIPT/TAPERED TIP

PJA PT	V/OP RLC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	P5 MEAN N4 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
60 15	0.3009 1.89	0.7781 -0.33	2806. 576. NA	NA 4675. NA	NA NA NA	-2721. 8946. NA	NA -5745. NA	NA NA NA	0.057 0.060 0.020
60 16	0.3039 2.20	0.7741 -0.86	3232. 633. NA	NA 4332. NA	NA NA NA	-1738. 9963. NA	NA -5946. NA	NA NA NA	0.074 0.078 0.021
60 17	0.3015 2.36	0.7778 0.30	3131. 597. NA	NA 4171. NA	NA NA NA	-1037. 10219. NA	NA -5928. NA	NA NA NA	0.065 0.046 0.020
60 18	0.3018 2.17	0.7774 -0.23	3220. 600. NA	NA 4358. NA	NA NA NA	-1694. 10148. NA	NA -5921. NA	NA NA NA	0.078 0.052 0.020
60 19	0.3146 2.16	0.7832 -0.15	3036. 609. NA	NA 4184. NA	NA NA NA	-1893. 10039. NA	NA -5920. NA	NA NA NA	0.066 0.057 0.010
60 20	0.2900 2.40	0.7679 -0.39	3002. 565. NA	NA 4133. NA	NA NA NA	-1434. 10216. NA	NA -5950. NA	NA NA NA	0.068 0.052 0.015
61 4	0.0657 4.33	0.6338 0.38	1700. 1244. NA	NA 3931. NA	NA NA NA	-22. 10122. NA	NA -7082. NA	NA NA NA	0.183 0.070 0.026
61 5	0.0759 4.34	0.6417 -0.13	2716. 1149. NA	NA 3674. NA	NA NA NA	-658. 9721. NA	NA -6903. NA	NA NA NA	0.197 0.077 0.022
61 6	0.0874 4.27	0.6486 0.46	3130. 1014. NA	NA 3438. NA	NA NA NA	-674. 9351. NA	NA -6573. NA	NA NA NA	0.197 0.079 0.020
61 8	0.0769 0.11	0.6411 0.43	2745. 251. NA	NA 2396. NA	NA NA NA	-403. 5094. NA	NA -5848. NA	NA NA NA	0.086 0.018 0.003

SWEPT/TAPERED TIP

FUN PT	V/DR RIC	MAT RIS	PL OSC O OSC N3 OSC	N5 OSC N6 OSC N7 OSC	F5 OSC F6 OSC F7 OSC	PL MEAN O MEAN N3 MEAN	N5 MEAN F6 MEAN F7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NIV4 ACC T14 ACC LN4 ACC
61 19	0.0764 4.60	0.6423 -0.40	2775. 675. NA	NA 2504. NA	NA F A NA	-416. 381. NA	NA -6877. NA	NA NA NA	0.114 0.068 0.008
61 20	0.0787 4.2	0.5425 -0.67	2561. 1139. NA	NA 3757. NA	NA NA NA	-309. 6732. NA	NA -6724. NA	NA NA NA	0.202 0.083 0.024
62 7	0.1594 0.20	0.7199 0.38	2710. 301. NA	NA 2557. NA	NA NA NA	-2178. 5649. NA	NA -5329. NA	NA NA NA	0.051 0.033 0.006
62 8	0.2007 0.38	0.7199 0.53	2460. 183. NA	NA 3072. NA	F A NA NA	-782. 8629. NA	NA 5765. NA	NA NA NA	0.086 0.085 0.004
63 2	0.2002 0.10	0.7208 0.46	290. 427. NA	NA 3232. NA	NA NA NA	204. 9041. NA	NA -6088. NA	NA NA NA	0.090 0.085 0.005
63 3	0.2016 2.33	0.7202 0.45	509. 480. NA	NA 3098. NA	NA NA NA	129. 9765. NA	NA -6156. NA	NA NA NA	0.068 0.096 0.002
63 4	0.1980 -1.85	0.7180 0.36	226. 412. NA	NA 3113. NA	NA NA NA	199. 7864. NA	NA -5899. NA	NA NA NA	0.120 0.085 0.013
63 5	0.2094 0.75	0.7807 0.42	1194. 197. NA	NA 3776. NA	NA NA NA	-212. 8987. NA	NA -5839. NA	NA NA NA	0.064 0.084 0.009
63 6	0.2991 0.41	0.7823 0.35	2791. 528. NA	NA 4822. NA	NA NA NA	-253. 11821. NA	NA -6119. NA	NA NA NA	0.104 0.064 0.030
63 7	0.4007 -0.01	0.8421 0.23	2696. 882. NA	NA 5187. NA	NA NA NA	-1233. 14189. NA	NA -6386. NA	NA NA NA	0.126 0.107 0.029

SWEPT/TAPERED TIP

RUN PT	V/CR RIC	MAT RIS	PL OSC O OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN O MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	VV4 ACC TL4 ACC LN4 ACC
63 8	0.4031 0.27	0.8431 0.46	2821. 1370. NA	NA 6163. NA	NA NA NA	-424. 19059. NA	NA -6667. NA	NA NA NA	0.202 0.120 0.050
63 9	0.3986 0.22	0.8456 0.18	3272. 611. NA	NA 5067. NA	NA NA NA	-2439. 7474. NA	NA -5563. NA	NA NA NA	0.085 0.083 0.014
63 10	0.4028 0.55	0.8406 0.27	3142. 938. NA	NA 5501. NA	NA NA NA	-2145. 10221. NA	NA -5857. NA	NA NA NA	0.075 0.116 0.027
63 11	0.3091 0.20	0.8448 0.45	2902. 1155. NA	NA 6034. NA	NA NA NA	-1292. 13975. NA	NA -6181. NA	NA NA NA	0.130 0.103 0.046
63 12	0.3908 0.22	0.8447 0.47	2985. 1379. NA	NA 6381. NA	NA NA NA	-510. 18295. NA	NA -6450. NA	NA NA NA	0.213 0.100 0.059
63 13	0.4075 3.50	0.8445 -0.01	481. 1644. NA	NA 5940. NA	NA NA NA	153. 21379. NA	NA -6841. NA	NA NA NA	0.196 0.133 0.057
63 14	0.3675 0.20	0.3959 0.34	3154. 695. NA	NA 5077. NA	NA NA NA	-1857. 9375. NA	NA -5600. NA	NA NA NA	0.180 0.014 0.037
63 15	0.3701 -0.01	0.8937 0.39	3151. 1063. NA	NA 5258. NA	NA NA NA	-2161. 12831. NA	NA -5922. NA	NA NA NA	0.143 0.021 0.039
63 16	0.3607 0.35	0.3935 0.27	349. 1330. NA	NA 5543. NA	NA NA NA	183. 14999. NA	NA -6168. NA	NA NA NA	0.127 0.027 0.048
63 17	0.3650 0.26	0.9011 0.40	334. 1478. NA	NA 5927. NA	NA NA NA	192. 17522. NA	NA -6290. NA	NA NA NA	0.120 0.036 0.050

SWEPT/TAPERED TIP

PUN FT	VDP PIC	MAT RIS	PL OSC O OSC N3 OSC	N5 OSC N6 OSC N7 OSC	F5 OSC F6 OSC F7 OSC	PL MEAN O MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
63 18	0.3676 0.40	0.8966 0.38	407. 1407. NA	NA 5834. NA	NA NA NA	175. 18873. NA	NA -6435. NA	NA NA NA	0.103 0.033 0.050
63 20	0.1998 0.31	0.7194 0.52	2992. 461. NA	NA 2770. NA	NA NA NA	-2926. 6296. NA	NA -5323. NA	NA NA NA	0.052 0.046 0.007
63 21	0.2004 0.37	0.7160 0.53	3179. 474. NA	NA 3271. NA	NA NA NA	-931. 9564. NA	NA -5813. NA	NA NA NA	0.082 0.088 0.002

SWEPT/TAPERED TIP

RUN PT	V/CR RIC	WAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
48 4	0.2020 0.10	0.7180 0.65	278. 434. 1235.	1879. 2498. 3608.	8052. 7676. 6621.	50. 11363. 348.	-6848. 933. 37.	-4686. 3930. 2335.	0.102 0.043 0.013
48 5	0.2001 0.16	0.7193 0.61	458. 547. 1500.	2189. 2810. 3856.	8946. 8190. 7094.	-0. 15640. 750.	-7100. 1272. 1128.	-5047. 3215. 2003.	0.164 0.055 0.024
48 6	0.2005 0.20	0.7181 0.63	449. 575. 1461.	2184. 2837. 4062.	9184. 8324. 7655.	-50. 18277. 912.	-7222. 1433. 7518.	-5144. 3024. 1937.	0.202 0.054 0.028
48 7	0.1995 0.41	0.7199 0.59	1018. 607. 1519.	2109. 2775. 4636.	8925. 7965. 7434.	-169. 19458. 964.	-7271. 1498. 9948.	-5165. 2960. 1893.	0.174 0.049 0.030
48 8	0.1987 0.22	0.7189 0.34	108. 254. 1047.	1371. 1670. 2283.	4359. 4757. 4384.	114. 5342. -308.	-6356. 297. 6809.	-3767. 5341. 3115.	0.045 0.020 0.008
48 9	0.2003 0.16	0.7199 0.32	211. 383. 1051.	1561. 1939. 3108.	6935. 6786. 6170.	84. 7363. -2.	-6558. 565. 9883.	-4134. 4721. 2824.	0.060 0.040 0.009
48 10	0.2004 0.28	0.7175 0.36	296. 361. 1145.	1815. 2369. 3417.	7742. 7167. 6672.	48. 10489. 344.	-6788. 873. 10771.	-4445. 4159. 2609.	0.106 0.041 0.007
48 11	0.1998 0.16	0.7186 0.54	358. 661. 1228.	1933. 2549. 3800.	8332. 7850. 7055.	24. 12382. 516.	-6898. 1034. 10426.	-4585. 3923. 2516.	0.135 0.045 0.012
48 12	0.1994 0.25	0.7213 0.52	402. 585. 1293.	1982. 2632. 4229.	8925. 8409. 7558.	49. 14631. 661.	-7010. 1185. 11273.	-4602. 3764. 2510.	0.162 0.046 0.014
48 13	0.2000 0.17	0.7212 0.57	489. 571. 1383.	1785. 2431. 6700.	8674. 8440. 7804.	-8. 17325. 851.	-7150. 1351. 15459.	-4740. 3557. 2432.	0.193 0.049 0.018

SWEPT TIP

RUN PT	V/CB R/C	WAT R/S	PL OSC O OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
48 14	0.1909 0.08	0.7206 0.28	69. 118. 221.	383. 699. 1353.	984. 1489. 1938.	198. 3130. -506.	-6620. 586. 5663.	-4592. 4383. 1970.	0.013 0.006 0.003
48 17	0.1909 0.23	0.7192 0.29	70. 121. 1442.	1623. 2055. 2605.	4360. 5215. 4508.	153. 3025. -851.	-5934. -250. -523.	-3018. 6192. 3616.	0.028 0.021 0.011
48 18	0.2001 0.07	0.7193 0.28	75. 128. 1281.	1510. 1842. 2369.	4556. 5052. 4339.	152. 3463. -591.	-6065. -49. -407.	-3099. 5933. 3541.	0.031 0.023 0.009
48 19	0.2001 0.14	0.7198 0.44	93. 249. 1066.	1411. 1822. 2641.	4974. 5540. 5105.	123. 4576. -315.	-6251. 195. -239.	-3426. 5398. 3309.	0.058 0.025 0.008
48 20	0.1996 0.35	0.7200 0.41	217. 356. 1019.	1546. 1982. 3225.	7247. 7397. 7001.	77. 6678. 3.	-6458. 474. 4772.	-3760. 4856. 3092.	0.060 0.039 0.003
48 21	0.2005 0.23	0.7191 0.61	308. 592. 1170.	1781. 2345. 4064.	7579. 7248. 7165.	43. 9260. 313.	-6628. 726. 7293.	-3871. 4528. 3010.	0.108 0.042 0.011
48 22	0.2002 0.14	0.7184 0.60	384. 665. 1282.	1878. 2584. 4115.	8011. 7725. 7275.	59. 10822. 498.	-6723. 842. 2966.	-3926. 4361. 3034.	0.124 0.051 0.012
48 23	0.2001 0.21	0.7210 0.43	476. 759. 1400.	1915. 2598. 4150.	8080. 8658. 7087.	33. 13217. 681.	-6838. 1000. 2164.	-3926. 4236. 3092.	0.141 0.057 0.013
48 24	0.2002 0.33	0.7185 0.33	57. 107. 197.	320. 517. 868.	849. 1181. 1336.	185. 3121. -417.	-6741. 729. 1417.	-4833. 3943. 1766.	0.012 0.008 0.001
48 25	0.2005 0.20	0.7192 0.20	0. 4. 2.	1. 4. 4.	12. 10. 11.	97. -68. -6217.	-3142. -2063. -795.	151. 316. 586.	0.000 0.000 0.000

SWEPT TIP

180

PUN PT	V/R R/C	MAT R/S	OL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	F5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
49 3	0.3007 0.306	0.7792 0.36	95. 272. 2042.	2236. 2691. 3096.	5509. 6223. 4787.	120. 5553. -516.	-6205. 190. 4386.	-3663. 5491. 3040.	0.098 0.038 0.026
49 4	0.3077 0.13	0.7798 0.33	191. 376. 1927.	2241. 2679. 3245.	7594. 7855. 6626.	85. 8196. -184.	-6403. 393. 4802.	-3867. 5230. 3147.	0.071 0.054 0.023
49 5	0.2999 0.15	0.7814 0.35	285. 463. 1809.	2271. 2802. 3428.	8667. 8136. 7071.	65. 11347. 192.	-6655. 651. 5354.	-4274. 4842. 3044.	0.063 0.039 0.029
49 6	0.2985 0.04	0.7832 0.50	368. 596. 1903.	2336. 3142. 3741.	10409. 9443. 7796.	46. 15391. 591.	-6934. 989. 6769.	-4772. 4260. 2667.	0.092 0.025 0.035
49 7	0.2997 -0.07	0.7800 0.42	420. 749. 1879.	2334. 3259. 3941.	11053. 10346. 8511.	26. 17692. 792.	-7093. 1177. 7032.	-5104. 3890. 2481.	0.102 0.033 0.038
49 8	0.3008 0.10	0.7789 0.52	520. 821. 2077.	2463. 3344. 4354.	11057. 11258. 9167.	-7. 20435. 905.	-7170. 1256. 8031.	-4959. 4066. 2739.	0.061 0.049 0.026
49 9	0.2998 0.25	0.7804 0.23	195. 327. 1467.	1584. 2010. 3066.	5525. 5798. 5196.	60. 9598. -95.	-6663. 726. 10372.	-4374. 4820. 2437.	0.056 0.055 0.015
49 10	0.2991 0.28	0.7821 0.16	256. 397. 1436.	1756. 2138. 2884.	6720. 6754. 5811.	46. 12059. 133.	-6793. 858. 10435.	-4541. 4626. 2428.	0.029 0.037 0.018
49 11	0.2995 0.10	0.7803 0.43	337. 504. 1519.	1840. 2235. 3021.	8379. 7957. 6462.	24. 16726. 523.	-7033. 1124. 10444.	-4903. 4143. 2231.	0.065 0.018 0.026
49 12	0.3001 0.26	0.7806 0.43	421. 669. 1712.	1987. 2417. 3450.	9953. 8952. 7210.	1. 22099. 857.	-7253. 1375. 10496.	-5138. 3736. 2024.	0.075 0.037 0.028

SWEPT TIP

PL-1

QUIN PT	V/OP RIC	MAT RIS	PL OSC O OSC N3 OSC	N5 OSC N6 OSC N7 OSC	F5 OSC E6 OSC F7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
49 13	0.3012 0.17	0.7791 0.43	392. 617. 1544.	1877. 2311. 3240.	9016. 8271. 6977.	-36. 19093. 683.	-7152. 1255. 11007.	-5035. 3939. 2022.	0.088 0.036 0.031
49 14	0.3012 0.20	0.7782 0.15	118. 246. 2667.	2824. 3709. 3345.	5687. 7571. 6633.	214. 3491. -1452.	-5404. -647. 7531.	-1774. 7885. 4140.	0.171 0.032 0.024
49 15	0.3005 0.26	0.7789 0.12	89. 200. 2636.	2743. 3441. 3534.	5741. 7031. 5856.	184. 2990. -1129.	-5579. -466. 8356.	-2138. 7534. 3994.	0.138 0.045 0.023
49 16	0.3015 0.08	0.7768 0.22	106. 281. 2532.	2674. 3328. 3123.	6204. 6642. 5237.	164. 3194. -812.	-5790. -261. 8692.	-2597. 7119. 3829.	0.124 0.047 0.023
49 17	0.3013 0.25	0.7782 0.32	119. 355. 2418.	2601. 3144. 3166.	7033. 7292. 6159.	140. 4038. -509.	-5984. -61. 8868.	-2967. 6756. 3790.	0.074 0.048 0.023
49 18	0.3017 0.17	0.7773 0.25	224. 439. 2227.	2602. 3180. 3806.	9425. 9659. 7921.	106. 5515. -210.	-6195. 192. 9077.	-3252. 6305. 3647.	0.051 0.058 0.022
49 19	0.3019 0.17	0.7763 0.60	336. 531. 2133.	2688. 3281. 4093.	10273. 10115. 8103.	87. 7867. 105.	-6408. 418. 9352.	-3519. 5933. 3625.	0.067 0.059 0.026
49 20	0.2993 -0.10	0.7817 0.47	410. 678. 2195.	2735. 3468. 4813.	11350. 11173. 8703.	72. 9371. 286.	-6521. 562. 9829.	-3757. 5777. 3694.	0.076 0.045 0.027
49 21	0.3009 -0.00	0.7777 0.64	505. 794. 2438.	2874. 3714. 5501.	12287. 12711. 9946.	43. 12002. 497.	-6655. 677. 13181.	-3905. 5669. 3806.	0.044 0.054 0.021
49 24	0.3728 0.16	0.8321 0.49	274. 499. 3485.	3564. 4346. 5850.	9934. 10744. 8983.	83. 8183. -372.	-6163. 176. 6735.	-3188. 6203. 3398.	0.297 0.068 0.047

SWEPT TIP

-B42-

RIJN PT	V/CR RIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	F5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
49 25	0.3746 0.27	0.8293 0.26	288. 725. 3374.	3234. 3970. 7822.	9286. 9970. 8422.	62. 10986. -42.	-6395. 445. 13679.	-3399. 5838. 3180.	0.250 0.061 0.050
49 26	0.3741 0.27	0.8293 0.61	369. 1003. 3633.	3668. 4296. 5841.	11926. 12461. 10229.	36. 15255. 307.	-6630. 736. 25562.	-3525. 5550. 2991.	0.202 0.051 0.054
49 27	0.3743 0.17	0.8267 0.33	425. 1103. 3818.	3787. 4403. 8530.	13199. 13742. 10970.	35. 17567. 513.	-6772. 907. 23488.	-3665. 5305. 2854.	0.151 0.059 0.056
49 28	0.3746 0.36	0.8256 0.48	463. 1401. 3785.	3771. 4412. 6712.	14587. 14729. 11868.	-14. 20583. 731.	-6891. 1045. 6162.	-3642. 5314. 2957.	0.110 0.049 0.060
49 29	0.3746 0.32	0.8275 0.41	288. 590. 2471.	2402. 2924. 4971.	7372. 8269. 7083.	12. 12912. 104.	-6748. 862. 5680.	-4222. 5144. 2329.	0.142 0.036 0.026
49 30	0.3742 0.30	0.8273 0.32	278. 670. 2473.	2355. 2860. 8184.	7255. 8014. 7143.	-15. 15252. 245.	-6869. 1016. 12182.	-4341. 4920. 2146.	0.120 0.034 0.030
49 31	0.3761 0.14	0.8260 0.34	314. 767. 2649.	2587. 3099. 8669.	8556. 9053. 7841.	-21. 17395. 428.	-6948. 1101. 13300.	-4380. 4744. 2039.	0.086 0.062 0.033
49 32	0.3759 0.25	0.8261 0.47	515. 815. 2697.	2563. 3081. 5648.	9324. 9753. 8273.	-67. 20596. 645.	-7053. 1222. 18260.	-4424. 4718. 1987.	0.066 0.048 0.031
49 33	0.3763 0.23	0.8255 0.15	240. 334. 4333.	4283. 5295. 13070.	9047. 10122. 8724.	187. 3852. -1650.	-5266. -854. 14799.	-1349. 8894. 4794.	0.298 0.044 0.028
49 34	0.3775 0.23	0.8236 0.22	232. 304. 4303.	4244. 5202. 9507.	9083. 10097. 8297.	164. 3177. -1327.	-5430. -654. 12746.	-1696. 8446. 4576.	0.306 0.056 0.030

SWEPT TIP

-B3-

QUIN PT	V/OR 91C	MAT 91S	PL OSC O OSC N3 OSC	N5 OSC N6 OSC N7 OSC	F5 OSC F6 OSC F7 OSC	PL MEAN O MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
49	0.3772	0.8251	212.	4231.	9252.	140.	-5578.	-2020.	0.311
35	0.16	0.22	310.	5143.	10111.	3137.	-494.	8163.	0.056
			4200.	10706.	8139.	-1042.	16266.	4467.	0.033
49	0.3772	0.8251	227.	4148.	11270.	126.	-5761.	-2330.	0.286
36	0.32	0.33	325.	5069.	11445.	3963.	-292.	7736.	0.073
			3950.	9435.	9587.	-750.	20736.	4232.	0.031
49	0.3743	0.8261	256.	3734.	12480.	112.	-5989.	-2629.	0.231
37	0.16	0.24	721.	4598.	12663.	5435.	2.	7256.	0.065
			3636.	8221.	10447.	-454.	22389.	3893.	0.035
49	0.3773	0.8251	346.	3801.	14450.	58.	-6154.	-2877.	0.193
38	0.14	0.42	895.	4449.	14832.	7993.	212.	6965.	0.059
			3776.	8515.	12099.	-149.	16009.	3749.	0.040
49	0.3775	0.8234	392.	3950.	15734.	41.	-6257.	-2921.	0.159
39	0.31	0.40	1042.	4663.	15898.	9894.	323.	6858.	0.054
			3911.	6758.	13159.	19.	3208.	3768.	0.044
49	0.3766	0.8260	483.	3907.	17750.	-11.	-6375.	-2836.	0.145
40	0.20	0.61	1370.	4611.	17560.	12830.	449.	6945.	0.040
			4188.	5768.	14080.	217.	246.	3982.	0.051
49	0.3754	0.8986	377.	3801.	13042.	66.	-6036.	-2383.	0.409
43	0.27	0.19	635.	4684.	12496.	9535.	110.	7940.	0.039
			3807.	10140.	8573.	-629.	10054.	4950.	0.037
49	0.3735	0.8984	2979.	3769.	13397.	-1591.	-6263.	-2525.	0.400
44	0.17	0.27	900.	4743.	13133.	13667.	385.	7654.	0.052
			3845.	7080.	9533.	-224.	2264.	4751.	0.037
49	0.3756	0.8964	3422.	3825.	13543.	-2046.	-6405.	-1970.	0.387
45	0.23	0.47	1163.	4712.	13176.	15071.	545.	7386.	0.057
			3933.	8809.	10010.	-54.	1782.	4546.	0.033
51	0.3748	0.8975	369.	NA	NA	38.	NA	NA	0.408
3	0.19	0.11	728.	4836.	NA	11058.	293.	NA	0.035
			NA	NA	NA	NA	NA	NA	0.037

SWEPT TIP

-B44-

RUN PT	V/TP RIC	WAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
51 4	0.3756 0.04	0.8952 0.41	394. 903. NA	NA 4892. NA	NA NA NA	28. 12968. NA	NA 432. NA	NA NA NA	0.412 0.041 0.034
51 5	0.3750 0.27	0.8960 0.45	437. 1140. NA	NA 4822. NA	NA NA NA	5. 15519. NA	NA 619. NA	NA NA NA	0.385 0.047 0.033
51 6	0.3776 0.18	0.8920 0.47	478. 1292. NA	NA 4908. NA	NA NA NA	-2. 17541. NA	NA 709. NA	NA NA NA	0.379 0.045 0.028
51 7	0.3738 0.11	0.8971 0.43	508. 1506. NA	NA 4881. NA	NA NA NA	-22. 21502. NA	NA 953. NA	NA NA NA	0.316 0.055 0.031
51 8	0.3751 0.11	0.8969 0.50	549. 1488. NA	NA 4864. NA	NA NA NA	-24. 23015. NA	NA 1037. NA	NA NA NA	0.303 0.049 0.029
51 9	0.3758 0.42	0.8980 0.26	337. 732. NA	NA 3602. NA	NA NA NA	-2. 12141. NA	NA 745. NA	NA NA NA	0.294 0.032 0.048
51 10	0.3782 0.12	0.8925 0.10	357. 862. NA	NA 3607. NA	NA NA NA	-9. 14736. NA	NA 838. NA	NA NA NA	0.307 0.030 0.047
51 11	0.3745 0.27	0.8997 0.39	388. 1069. NA	NA 3672. NA	NA NA NA	-26. 18219. NA	NA 962. NA	NA NA NA	0.301 0.044 0.047
51 12	0.3766 0.12	0.8974 0.34	422. 1242. NA	NA 3580. NA	NA NA NA	-42. 21631. NA	NA 1149. NA	NA NA NA	0.262 0.039 0.049
51 13	0.3758 0.13	0.8980 0.29	455. 1222. NA	NA 3663. NA	NA NA NA	-49. 23510. NA	NA 1219. NA	NA NA NA	0.259 0.037 0.051

SWEEP TIP

-B45-

RUN PT	V/DR BIC	VAT NIS	PL OSC O OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN U MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
51 14	0.3762 0.24	0.8951 0.11	343. 676. NA	NA 5437. NA	NA NA NA	161. 5323. NA	NA -852. NA	NA NA NA	0.299 0.006 0.050
51 15	0.3772 0.32	0.8936 -0.07	334. 692. NA	NA 5583. NA	NA NA NA	141. 4225. NA	NA -673. NA	NA NA NA	0.349 0.011 0.057
51 16	0.3777 0.16	0.8951 0.12	341. 669. NA	NA 5467. NA	NA NA NA	117. 4036. NA	NA -458. NA	NA NA NA	0.379 0.023 0.065
51 17	0.3766 0.14	0.8960 0.20	345. 668. NA	NA 5395. NA	NA NA NA	86. 4841. NA	NA -209. NA	NA NA NA	0.374 0.032 0.068
51 18	0.3768 0.13	0.8956 0.36	337. 663. NA	NA 5544. NA	NA NA NA	75. 5677. NA	NA -130. NA	NA NA NA	0.381 0.045 0.071
51 19	0.3766 0.19	0.8963 0.43	370. 877. NA	NA 5624. NA	NA NA NA	62. 6897. NA	NA -10. NA	NA NA NA	0.382 0.062 0.075
51 20	0.3757 0.04	0.8974 0.59	412. 1107. NA	NA 5629. NA	NA NA NA	41. 8193. NA	NA 93. NA	NA NA NA	0.369 0.076 0.078
51 21	0.3749 0.25	0.8983 0.28	452. 1336. NA	NA 5521. NA	NA NA NA	17. 10137. NA	NA 235. NA	NA NA NA	0.359 0.089 0.081
51 22	0.3753 0.23	0.8972 0.44	497. 1535. NA	NA 5371. NA	NA NA NA	-10. 12857. NA	NA 393. NA	NA NA NA	0.355 0.095 0.034
51 25	0.3871 2.20	0.8284 -0.01	378. 1127. NA	NA 3889. NA	NA NA NA	15. 16489. NA	NA 1038. NA	NA NA NA	0.169 0.059 0.047

SWEPT TIP

-B46-

RUN PT	V/CR BIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC F6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
51 26 SWEEP TIP	0.3869 5.87	0.8273 -0.31	371. 1259. NA	NA 3202. NA	NA NA NA	-3. 16226. NA	NA 1151. NA	NA NA NA	0.137 0.054 0.039
51 27	0.3872 -0.27	0.8250 -0.37	414. 1046. NA	NA 4651. NA	NA NA NA	21. 15285. NA	NA 852. NA	NA NA NA	0.155 0.068 0.052
51 28	0.3883 2.47	0.8251 -2.29	382. 1239. NA	NA 4297. NA	NA NA NA	1. 16325. NA	NA 990. NA	NA NA NA	0.165 0.073 0.050
51 29	0.3876 2.41	0.8262 1.99	372. 1281. NA	NA 3934. NA	NA NA NA	24. 16458. NA	NA 1018. NA	NA NA NA	0.188 0.063 0.049
51 30	0.3888 2.43	0.8240 -0.24	376. 1118. NA	NA 3865. NA	NA NA NA	10. 16273. NA	NA 1022. NA	NA NA NA	0.157 0.062 0.043
51 31	0.3893 3.10	0.8250 0.00	352. 1068. NA	NA 3276. NA	NA NA NA	1. 16360. NA	NA 1130. NA	NA NA NA	0.116 0.060 0.026
51 32	0.3886 1.64	0.8249 -0.14	443. 1129. NA	NA 4689. NA	NA NA NA	20. 15214. NA	NA 855. NA	NA NA NA	0.157 0.069 0.046
51 33	0.3902 2.43	0.8242 -0.14	376. 1208. NA	NA 3952. NA	NA NA NA	15. 16195. NA	NA 1030. NA	NA NA NA	0.149 0.069 0.046
51 34	0.3892 1.18	0.8253 -0.48	440. 1280. NA	NA 4493. NA	NA NA NA	6. 18385. NA	NA 1077. NA	NA NA NA	0.123 0.062 0.052
51 35	0.3894 3.71	0.8237 -0.31	337. 1016. NA	NA 3461. NA	NA NA NA	17. 13837. NA	NA 923. NA	NA NA NA	0.175 0.054 0.035

RUN PT	V/CR RIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	F5 OSC F6 OSC F7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	F5 MEAN F6 MEAN F7 MEAN	NV4 ACC TL4 ACC LN4 ACC
51 36 SWEEP TIP	0.3896 2.24	0.8249 -0.99	373. 1123. NA	NA 3996. NA	NA NA NA	7. 15584. NA	NA 1014. NA	NA NA NA	0.133 0.077 0.043
51 37	0.3882 2.82	0.8265 0.78	391. 1204. NA	NA 3935. NA	NA NA NA	19. 16382. NA	NA 974. NA	NA NA NA	0.103 0.061 0.049
59 5	0.3743 0.37	0.8989 0.31	369. 815. NA	NA 4789. NA	NA NA NA	98. 12835. NA	NA 355. NA	NA NA NA	0.402 0.043 0.036
59 6	0.3754 0.29	0.8979 0.29	453. 1203. NA	NA 4731. NA	NA NA NA	68. 17860. NA	NA 681. NA	NA NA NA	0.367 0.054 0.036
59 7	0.3750 0.32	0.8977 0.26	541. 1510. NA	NA 4939. NA	NA NA NA	40. 25326. NA	NA 1016. NA	NA NA NA	0.263 0.053 0.027
59 8	0.3736 0.53	0.9405 0.06	2393. 1168. NA	NA 4439. NA	NA NA NA	-4303. 13197. NA	NA 234. NA	NA NA NA	0.135 0.080 0.043
59 9	0.3742 0.32	0.9406 0.34	3128. 1588. NA	NA 4647. NA	NA NA NA	-3054. 18088. NA	NA 481. NA	NA NA NA	0.177 0.069 0.056
59 10	0.3752 0.31	0.9388 0.28	340. 1737. NA	NA 4507. NA	NA NA NA	-54. 20987. NA	NA 652. NA	NA NA NA	0.105 0.103 0.045
59 11	0.3746 0.22	0.9403 0.23	691. 1255. NA	NA 4525. NA	NA NA NA	-162. 15309. NA	NA 358. NA	NA NA NA	0.147 0.097 0.059
59 12	0.3751 0.34	0.9389 0.31	1. 1362. NA	NA 4811. NA	NA NA NA	-218. 10393. NA	NA -30. NA	NA NA NA	0.009 0.007 0.049

128

RUN PT	V/CR RIC	MAT RIS	PL OSC O OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MLAN O MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
59 13	0.3761 0.17	0.9367 0.31	1. 1519. NA	NA 5011. NA	NA NA NA	-218. 11723. NA	NA 97. NA	NA NA NA	0.217 0.197 0.050
59 14	0.3752 0.43	0.9398 0.39	1. 1659. NA	NA 4904. NA	NA NA NA	-218. 13959. NA	NA 193. NA	NA NA NA	0.237 0.135 0.049
59 15	0.3747 -0.02	0.9406 0.43	0. 2020. NA	NA 5206. NA	NA NA NA	-218. 16590. NA	NA 357. NA	NA NA NA	0.247 0.144 0.049
59 16	0.3738 0.46	0.9427 0.17	1. 1523. NA	NA 3977. NA	NA NA NA	-218. 18691. NA	NA 594. NA	NA NA NA	0.106 0.111 0.092
59 17	0.3738 0.50	0.9424 0.34	1. 1548. NA	NA 4066. NA	NA NA NA	-218. 25242. NA	NA 963. NA	NA NA NA	0.082 0.106 0.077
59 18	0.3724 0.39	0.9450 0.48	0. 1855. NA	NA 4097. NA	NA NA NA	-215. 27821. NA	NA 915. NA	NA NA NA	0.198 0.109 0.255

SWEPT TIP

1849

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
23 3	0.2008 0.07	0.7184 0.06	107. 148. 2098.	2108. 2592. 3330.	4889. 6147. 5581.	238. 3294. -1286.	-5560. -733. -1545.	-1484. 7075. 5278.	0.087 0.054 0.017
23 4	0.2010 0.06	0.7174 0.16	88. 142. 1739.	1925. 2340. 2851.	4520. 5498. 4875.	226. 2884. -1028.	-5712. -514. -1372.	-1781. 6692. 5171.	0.059 0.057 0.015
23 5	0.2010 0.12	0.7171 0.21	89. 144. 1457.	1736. 2088. 2559.	4302. 5065. 4351.	218. 3285. -728.	-5905. -258. -1184.	-2025. 6294. 4996.	0.054 0.061 0.011
23 6	0.2019 0.17	0.7160 0.26	109. 244. 1327.	1685. 1972. 2650.	5209. 5614. 5134.	202. 4353. -421.	-6085. -32. -1080.	-2294. 5870. 5076.	0.068 0.051 0.010
23 7	0.2012 0.15	0.7171 0.36	177. 352. 1151.	1662. 2114. 3180.	7910. 7974. 7467.	183. 6132. -110.	-6275. 216. -938.	-2510. 5455. 6816.	0.065 0.113 0.002
23 8	0.2003 0.07	0.7180 0.48	249. 632. 1209.	1918. 2415. 3584.	8139. 8325. 8331.	180. 8708. 256.	-6483. 492. -708.	-2668. 4964. 7425.	0.114 0.129 0.010
23 9	0.1991 0.21	0.7220 0.48	322. 921. 1318.	1978. 2669. 3776.	8607. 8351. 8574.	184. 10724. 445.	-6586. 634. -571.	-2585. 4924. 8940.	0.120 0.132 0.010
23 10	0.2003 0.02	0.7198 0.54	397. 861. 1350.	1956. 2533. 3723.	9107. 9321. 8919.	181. 12942. 655.	-6723. 795. -421.	-2605. 4814. 10398.	0.144 0.146 0.014
23 11	0.2007 0.08	0.7179 0.54	542. 946. 1397.	1769. 2117. 3389.	9071. 8897. 8881.	167. 15964. 829.	-6823. 927. -277.	-2411. 4853. 13503.	0.174 0.134 0.018
23 12	0.2003 0.08	0.7191 0.62	605. 1051. 1453.	1646. 1940. 3149.	9901. 9368. 9495.	157. 17885. 904.	-6880. 1015. -60.	-2258. 4505. 16012.	0.201 0.119 0.025

TAPERED TIP

150

RUN PT	V/DR RIC	MAT BIS	PL JSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 JSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
TAPERED TIP									
23	0.2003	0.7193	66.	1672.	4349.	216.	-5987.	-2199.	0.043
13	0.09	0.22	129.	1978.	4997.	3668.	-178.	5729.	0.056
			1367.	2493.	4543.	-756.	-905.	18603.	0.012
23	0.1994	0.7213	85.	1574.	4210.	195.	-6223.	-2646.	0.061
14	0.18	0.26	303.	1813.	4733.	5128.	120.	5142.	0.030
			1227.	2534.	4610.	-410.	-707.	18491.	0.011
23	0.2004	0.7183	175.	1615.	7382.	174.	-6444.	-2991.	0.050
15	0.12	0.37	360.	2010.	7211.	7324.	410.	4585.	0.101
			1037.	3135.	6928.	-99.	-523.	18411.	0.001
23	0.2005	0.7178	254.	1949.	8131.	166.	-6660.	-3210.	0.098
16	0.08	0.41	651.	2524.	7673.	10276.	699.	4127.	0.106
			1168.	3610.	7564.	260.	-247.	18595.	0.008
23	0.2004	0.7177	388.	2093.	8912.	160.	-6901.	-3293.	0.137
17	0.13	0.48	811.	2718.	8364.	14443.	1014.	3779.	0.127
			1366.	3834.	8471.	622.	43.	19370.	0.014
23	0.2008	0.7185	540.	1839.	8029.	147.	-7038.	-3230.	0.187
18	0.07	0.45	826.	2424.	8096.	17567.	1163.	3802.	0.115
			1491.	3497.	8158.	813.	120.	18726.	0.022
23	0.1998	0.7193	703.	1617.	11022.	125.	-7133.	-2890.	0.246
19	0.24	0.53	1067.	2289.	10271.	21087.	1273.	3873.	0.092
			1723.	3453.	9190.	962.	-335.	16950.	0.027
23	0.2003	0.7199	76.	1393.	3929.	176.	-6292.	-3813.	0.051
22	0.06	0.17	259.	1674.	4411.	5598.	194.	4925.	0.034
			1110.	2341.	4238.	-391.	-625.	22125.	0.009
23	0.2001	0.7179	171.	1586.	7412.	156.	-6505.	-3142.	0.050
23	0.18	0.28	298.	1910.	7291.	8044.	460.	4459.	0.079
			1046.	2962.	6803.	-73.	-436.	22508.	0.001
23	0.2007	0.7193	253.	1992.	8977.	153.	-6753.	-3486.	0.086
24	-0.02	0.34	513.	2554.	8414.	11220.	774.	3841.	0.091
			1224.	3705.	7660.	299.	-219.	22648.	0.007

RUN PT	V/OR BIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC F7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN F7 MEAN	NV4 ACC TL4 ACC LN4 ACC
23	0.2000	0.7179	341.	2303.	9488.	152.	-7014.	-3794.	0.145
25	0.11	0.42	696.	2911.	8585.	15529.	1111.	3211.	0.106
			1514.	4085.	8172.	688.	102.	22860.	0.014
23	0.1993	0.7207	453.	2230.	9083.	144.	-7136.	-3747.	0.158
26	0.15	0.43	791.	2768.	8202.	18539.	1280.	3055.	0.101
			1547.	3823.	8269.	847.	258.	24226.	0.021
23	0.1998	0.7200	604.	1955.	8900.	122.	-7271.	-3676.	0.227
27	0.23	0.47	545.	2455.	8779.	21880.	1415.	3096.	0.080
			1580.	3583.	8710.	1069.	344.	25679.	0.038
23	0.2020	0.7155	106.	1990.	4528.	294.	-5277.	-403.	0.023
28	0.11	0.24	204.	2332.	4959.	652.	-943.	7640.	0.065
			1801.	2735.	4091.	-1341.	-1818.	29086.	0.004
23	0.2008	0.7155	115.	1945.	5242.	279.	-5430.	-645.	0.010
29	0.08	0.25	201.	2243.	5526.	-828.	-758.	7322.	0.079
			1756.	2635.	4527.	-1085.	-1745.	29107.	0.003
23	0.2006	0.7164	130.	1936.	7651.	263.	-5592.	-1031.	0.065
30	0.16	0.22	272.	2266.	7569.	-1702.	-554.	6864.	0.101
			1665.	2757.	6571.	-819.	-1644.	28973.	0.001
23	0.2011	0.7170	206.	2068.	7761.	240.	-5795.	-1460.	0.107
31	0.23	0.42	345.	2352.	7582.	-1998.	-306.	6322.	0.092
			1776.	2981.	6311.	-546.	-1483.	28842.	0.001
23	0.2013	0.7166	297.	2122.	11285.	224.	-5976.	-1582.	0.104
32	0.15	0.51	378.	2565.	11022.	-1693.	-91.	6097.	0.124
			1725.	3545.	9704.	-259.	-1342.	28901.	0.005
23	0.2021	0.7156	369.	2231.	13124.	214.	-6217.	-1874.	0.144
33	0.17	0.67	520.	2764.	12564.	161.	195.	5691.	0.126
			1740.	3958.	11155.	33.	-1137.	28880.	0.006
23	0.2008	0.7186	426.	2337.	13468.	202.	-6316.	-1853.	0.140
34	0.17	0.75	764.	2705.	12664.	2232.	305.	5801.	0.115
			1678.	3986.	11392.	165.	-1070.	29337.	0.008

TAPERED TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC F6 OSC E7 OSC	PL MFEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
24 3	0.3011 -0.05	0.7791 0.09	162. 257. 3078.	3148. 3978. 4827.	6402. 7759. 6713.	246. 3130. -1400.	-5391. -660. -1440.	-1061. 7613. 6823.	0.201 0.045 0.029
24 4	0.3012 0.32	0.7790 0.15	147. 212. 2829.	2890. 3552. 4320.	5992. 6974. 5909.	235. 3006. -1235.	-5523. -522. -1318.	-1383. 7361. 5618.	0.176 0.052 0.028
24 5	0.3005 0.10	0.7810 0.24	133. 272. 2718.	2783. 3385. 3922.	6587. 6678. 5112.	227. 3074. -919.	-5696. -360. -1265.	-1675. 7203. 6696.	0.149 0.063 0.026
24 6	0.3010 0.02	0.7795 0.38	113. 302. 2580.	2757. 3279. 3676.	7394. 7720. 6534.	212. 3805. -597.	-5896. -156. -1175.	-2064. 6943. 6422.	0.081 0.058 0.022
24 7	0.2993 0.15	0.7814 0.32	164. 461. 2256.	2556. 3047. 3730.	8820. 8944. 7301.	188. 5398. -294.	-6117. 80. -1075.	-2342. 6656. 6036.	0.047 0.057 0.024
24 8	0.3011 0.17	0.7787 0.44	273. 516. 2121.	2625. 3162. 4208.	9814. 9986. 8791.	173. 7831. 96.	-6359. 343. -928.	-2718. 6185. 5875.	0.045 0.051 0.022
24 9	0.3010 0.25	0.7799 0.40	347. 727. 2154.	2715. 3384. 4243.	11468. 11668. 9403.	161. 9713. 261.	-6486. 508. -804.	-2948. 5975. 7447.	0.035 0.054 0.023
24 10	0.3005 0.17	0.7807 0.52	437. 812. 2338.	2795. 3631. 4323.	12376. 13020. 10289.	147. 12355. 457.	-6609. 590. -804.	-2894. 6202. 7497.	0.023 0.048 0.018
24 11	0.3003 0.25	0.7811 0.49	674. 870. 2706.	2872. 3707. 4400.	13110. 13775. 10753.	103. 16244. 683.	-6754. 705. -786.	-2702. 6553. 7645.	0.084 0.056 0.014
24 12	0.3006 0.10	0.7805 0.20	130. 279. 3208.	3120. 3683. 4013.	7388. 7625. 6089.	301. 480. -1521.	-5146. -999. -2015.	-126. 9343. 9884.	0.145 0.060 0.014

TAPERED TIP

104

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
24 13	0.3018 0.16	0.7774 0.26	178. 276. 3060.	3055. 3557. 3965.	8462. 8710. 7094.	287. -1393. -1242.	-5298. -851. -1564.	-596. 8903. 9859.	0.098 0.075 0.006
24 14	0.3002 0.18	0.7796 0.28	189. 498. 2918.	2957. 3496. 4140.	9888. 10008. 8201.	269. -2362. -938.	-5534. -566. -1749.	-1196. 8294. 9570.	0.054 0.073 0.005
24 15	0.3013 0.18	0.7790 0.38	233. 637. 2774.	2981. 3580. 4406.	11834. 11429. 9244.	234. -2560. -738.	-5704. -353. -1620.	-1875. 7690. 9328.	0.035 0.062 0.025
24 16	0.3011 0.20	0.7781 0.48	341. 849. 2702.	3240. 3876. 4912.	16101. 15407. 12686.	199. -1737. -462.	-5915. -68. -1369.	-2409. 7003. 8676.	0.038 0.088 0.012
24 17	0.3003 0.20	0.7812 0.54	439. 654. 2656.	3361. 3976. 5008.	18304. 17131. 14206.	182. -665. -318.	-6020. 50. -1284.	-2702. 6752. 0366.	0.054 0.068 0.017
24 18	0.3002 0.19	0.7817 0.47	521. 728. 2669.	3380. 4079. 5036.	19574. 17988. 14864.	146. 1590. -183.	-6112. 134. -1292.	-2555. 6948. 8146.	0.091 0.080 0.012
25 3	0.2957 0.13	0.7820 0.28	141. 337. 2037.	2293. 2614. 3240.	7922. 7959. 6280.	170. 7721. -265.	-6313. 280. -871.	-2967. 5689. 6384.	0.065 0.063 0.016
25 4	0.2988 0.22	0.7809 0.33	224. 513. 1991.	2321. 2821. 3436.	8806. 8240. 6406.	158. 10950. 126.	-6581. 562. -710.	-3329. 5207. 6249.	0.039 0.045 0.025
25 5	0.3004 0.24	0.7828 0.46	293. 568. 1991.	2374. 3149. 3922.	9745. 9293. 7306.	146. 14986. 543.	-6860. 869. -455.	-3723. 4743. 6189.	0.050 0.020 0.024
25 6	0.3016 0.15	0.7801 0.43	362. 635. 2003.	2277. 3280. 4330.	10232. 10395. 7853.	133. 17653. 730.	-7006. 1045. -358.	-3902. 4563. 5952.	0.055 0.041 0.022

TAPERED TIP

-B54-

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC F7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
25 7	0.3005 0.06	0.7821 0.54	410. 596. 2079.	2351. 3346. 4523.	10507. 10910. 8363.	122. 19420. 820.	-7074. 1117. -324.	-3950. 4590. 5421.	0.057 0.047 0.018
25 8	0.3006 0.17	0.7798 0.19	211. 368. 1471.	1783. 2072. 2751.	7211. 7080. 4817.	131. 11718. 81.	-6714. 756. -319.	-3628. 4926. 5482.	0.030 0.043 0.021
25 9	0.3005 0.15	0.7802 0.23	247. 422. 1482.	1827. 2168. 2818.	7701. 7423. 5651.	126. 14054. 261.	-6827. 869. -272.	-3766. 4791. 5277.	0.030 0.027 0.025
25 10	0.3004 0.19	0.7812 0.29	288. 450. 1583.	1868. 2277. 3002.	8136. 7692. 5823.	122. 16637. 452.	-6949. 1003. -196.	-3905. 4628. 5172.	0.037 0.015 0.025
25 11	0.2999 0.04	0.7823 0.33	322. 589. 1549.	1949. 2411. 3291.	8856. 8267. 6584.	120. 19266. 688.	-7107. 1183. -46.	-4155. 4263. 4949.	0.066 0.033 0.030
25 12	0.3752 0.10	0.8276 0.12	339. 465. 4971.	4755. 5894. 7327.	10278. 11109. 8466.	248. 4063. -1802.	-5164. -938. -2173.	-330. 8901. 6842.	0.365 0.063 0.030
25 13	0.3747 0.10	0.8289 0.10	328. 436. 4820.	4551. 5666. 6912.	9946. 10907. 8007.	235. 3247. -1479.	-5320. -757. -2045.	-684. 8565. 6124.	0.380 0.069 0.035
25 14	0.3764 0.03	0.8270 0.17	291. 292. 4595.	4380. 5455. 6638.	9674. 10271. 7723.	222. 3140. -1167.	-5501. -562. -1881.	-1142. 8125. 6228.	0.374 0.078 0.034
25 15	0.3742 -0.14	0.8304 0.26	282. 405. 4263.	4207. 5223. 6312.	11870. 11916. 9341.	204. 3661. -887.	-5669. -379. -1778.	-1334. 7861. 6010.	0.312 0.093 0.028
25 16	0.3754 0.10	0.8282 0.41	292. 664. 3995.	3964. 4934. 6098.	11681. 11959. 9137.	182. 5785. -565.	-5866. -153. -1547.	-1496. 7016. 5703.	0.285 0.080 0.038

TAPERED TIP

-B55-

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
25 17	0.3751 0.07	0.3265 0.41	345. 819. 4049.	4092. 5049. 5952.	13873. 14312. 10970.	163. 7686. -247.	-6029. 49. -1109.	-1799. 7366. 5347.	0.221 0.071 0.042
25 18	0.3757 0.13	0.8270 0.32	379. 929. 4218.	3977. 4881. 5841.	15326. 15261. 11606.	149. 9799. -32.	-6134. 150. -900.	-1839. 7346. 4381.	0.187 0.060 0.048
25 19	0.3751 0.04	0.8270 0.50	523. 1347. 4522.	4022. 4729. 5707.	16897. 16844. 12606.	135. 12990. 166.	-6258. 270. -736.	-1539. 7610. 3048.	0.146 0.048 0.049
26 3	0.3000 0.13	0.7815 0.40	764. 520. 2063.	2388. 3155. 3721.	9135. 9158. 7523.	168. 12864. 288.	-6665. 659. -260.	-3493. 4614. 5746.	0.053 0.040 0.036
26 4	0.2976 0.03	0.7850 0.35	228. 478. 1664.	1981. 2446. 3092.	7794. 7436. 5864.	162. 11639. 64.	-6623. 624. -140.	-3485. 4728. 5673.	0.045 0.047 0.014
26 5	0.2996 0.20	0.7833 0.35	293. 547. 1903.	2139. 2811. 3481.	8976. 8622. 7287.	156. 15940. 473.	-6861. 867. 16.	-3691. 4370. 5434.	0.061 0.049 0.019
26 6	0.3026 0.15	0.7804 0.48	327. 560. 1914.	2277. 2973. 3901.	9761. 8941. 7410.	151. 18414. 704.	-7009. 1020. 102.	-3883. 4183. 5314.	0.060 0.053 0.018
26 7	0.2997 0.04	0.7813 0.37	386. 655. 1842.	2211. 3086. 4252.	9949. 9687. 8228.	144. 21299. 882.	-7150. 1173. 214.	-3936. 4178. 5090.	0.069 0.064 0.017
26 8	0.2589 0.05	0.7811 0.36	552. 652. 2213.	2417. 3284. 4436.	10385. 10250. 8070.	130. 25176. 1084.	-7285. 1282. 187.	-3608. 4579. 5105.	0.096 0.086 0.016
26 9	0.3005 0.13	0.7803 0.12	270. 626. 3444.	3259. 4087. 5088.	9822. 10565. 8295.	172. 8889. -351.	-6162. 168. -392.	-2352. 6017. 6321.	0.263 0.091 0.018

TAPERED TIP

RUN PT	V/OR BIC	MAT PIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
26 10	0.3769 0.35	0.8244 0.22	303. 712. 3526.	3250. 3975. 4946.	9757. 10494. 8145.	165. 10591. -176.	-6262. 281. -243.	-2352. 5992. 6325.	0.253 0.082 0.026
26 11	0.3763 0.21	0.8255 0.28	363. 899. 3980.	3624. 4312. 5531.	11815. 12103. 9455.	141. 14548. 216.	-6503. 548. 9.	-2483. 5663. 5943.	0.208 0.078 0.032
26 12	0.3770 0.28	0.8254 0.32	391. 1069. 3975.	3694. 4327. 5519.	13078. 13335. 10521.	157. 17219. 450.	-6670. 754. 251.	-2551. 5501. 6299.	0.108 0.080 0.035
26 13	0.3775 0.13	0.8250 0.19	287. 637. 2611.	2446. 2999. 3755.	7339. 8261. 6805.	130. 12279. -26.	-6616. 681. 403.	-3203. 5241. 6417.	0.161 0.046 0.026
26 14	0.3774 0.03	0.8241 0.31	329. 679. 2720.	2432. 2939. 3788.	7648. 8547. 7193.	126. 15079. 185.	-6718. 800. 503.	-3260. 5169. 6241.	0.156 0.033 0.028
26 15	0.3769 0.34	0.8253 0.16	336. 840. 2866.	2469. 2996. 4017.	8474. 8980. 7334.	121. 17750. 329.	-6839. 965. 683.	-3260. 4977. 5892.	0.080 0.060 0.026
25 16	0.3733 0.10	0.8281 0.22	373. 903. 3029.	2590. 3127. 4120.	9444. 9729. 7752.	125. 20756. 586.	-6967. 1105. 793.	-3370. 4787. 5528.	0.040 0.080 0.029
26 17	0.3757 0.08	0.8255 0.09	36. 104. 296.	232. 356. 616.	1284. 1473. 1255.	278. 2945. -561.	-6609. 696. 142.	-3932. 4574. 5538.	0.015 0.014 0.002
26 19	0.3750 0.26	0.8278 0.13	305. 585. 4891.	4358. 5311. 6390.	9960. 9592. 7427.	292. 1128. -1832.	-4949. -1198. -1935.	394. 9477. 9656.	0.339 0.102 0.029
26 20	0.3724 0.31	0.8313 0.26	292. 367. 4608.	4226. 5121. 6150.	11598. 11282. 9062.	274. -718. -1565.	-5135. -982. -1832.	-276. 8866. 8934.	0.260 0.108 0.029

TAPERED TIP

-B57-

RUN PT	V/OR BIC	MAT BIC	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
26	0.3745	0.8285	301.	4193.	12403.	262.	-5234.	-585.	0.233
21	0.26	0.23	372.	5115.	12262.	-1233.	-868.	8593.	0.111
			4499.	6208.	9867.	-1436.	-1748.	8835.	0.025
26	0.3740	0.8297	307.	4213.	12921.	252.	-5300.	-669.	0.228
22	0.30	0.28	419.	5074.	13271.	-1436.	-780.	8551.	0.105
			4441.	6108.	10689.	-1298.	-1702.	8577.	0.023
26	0.3743	0.8293	310.	4168.	14401.	238.	-5369.	-1002.	0.243
23	0.08	0.38	638.	5004.	14440.	-1937.	-679.	8235.	0.096
			4263.	6156.	11552.	-1253.	-1603.	8518.	0.014
26	0.3719	0.8314	338.	4219.	15276.	219.	-5489.	-1458.	0.290
24	0.20	0.35	851.	4874.	14483.	-1558.	-542.	7776.	0.107
			4216.	6155.	11214.	-1111.	-1477.	8070.	0.008
26	0.3766	0.8246	313.	4243.	16742.	198.	-5603.	-1715.	0.228
25	0.26	0.25	906.	4935.	15858.	-1019.	-411.	7520.	0.103
			4156.	6066.	12264.	-558.	-1360.	7755.	0.014
26	0.3727	0.8295	43.	407.	1393.	280.	-6475.	-3589.	0.006
26	0.05	0.09	102.	689.	1945.	3058.	491.	5259.	0.011
			287.	1183.	2100.	-623.	-25.	1618.	0.002
28	0.3001	0.7749	222.	2200.	8211.	149.	-6549.	-3088.	0.052
3	2.92	-0.18	626.	2584.	8030.	9973.	509.	5621.	0.044
			2041.	3097.	7068.	88.	-528.	5466.	0.019
28	0.2996	0.7768	224.	2295.	8616.	155.	-6500.	-2924.	0.049
4	2.28	0.17	590.	2654.	8302.	9798.	455.	6038.	0.047
			2137.	3319.	7391.	69.	-624.	5531.	0.020
28	0.3024	0.7703	231.	1981.	7280.	130.	-6602.	-3178.	0.051
5	4.78	0.16	762.	2256.	7079.	10330.	577.	5787.	0.035
			1951.	2805.	6422.	87.	-361.	4255.	0.015
28	0.2991	0.7736	229.	2399.	8682.	166.	-6414.	-2772.	0.032
6	0.20	0.16	461.	2913.	8494.	8707.	380.	6362.	0.042
			2037.	3650.	8125.	30.	-732.	4068.	0.023

TAPERED TIP

-B58

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
28 7	0.3027 2.39	0.7698 -0.37	230. 616. 2162.	2272. 2712. 3298.	8669. 8616. 7640.	150. 9715. 70.	-6521. 493. -518.	-3033. 5974. 3498.	0.042 0.052 0.019
28 8	0.3012 2.70	0.7719 1.20	230. 628. 1974.	2209. 2631. 3175.	8254. 8122. 7108.	155. 9910. 58.	-6501. 466. -554.	-2868. 6216. 3645.	0.058 0.040 0.019
28 9	0.3007 2.40	0.7732 0.50	228. 615. 2014.	2198. 2629. 3210.	8175. 8036. 7182.	155. 9806. 63.	-6522. 495. -535.	-2966. 6128. 3584.	0.057 0.043 0.020
28 10	0.3029 0.62	0.7697 -0.01	329. 612. 2133.	2500. 3218. 3795.	10077. 10367. 9380.	145. 12237. 392.	-6667. 660. -526.	-3160. 5876. 3583.	0.045 0.047 0.027
28 11	0.3032 4.59	0.7687 0.75	171. 576. 2012.	1979. 2357. 2927.	6925. 6943. 6577.	156. 6665. -310.	-6350. 334. -496.	-2866. 6283. 2834.	0.098 0.059 0.011
28 12	0.3008 2.70	0.7730 0.34	212. 637. 2021.	2204. 2611. 3117.	8024. 7906. 6908.	151. 9716. 55.	-6518. 487. -539.	-2989. 6230. 2763.	0.057 0.043 0.019
28 13	0.3030 3.08	0.7702 0.39	215. 583. 1798.	1842. 2136. 2794.	6823. 6694. 6298.	141. 10210. 61.	-6598. 593. -339.	-3193. 5990. 2401.	0.047 0.041 0.011
28 14	0.3006 2.04	0.7701 0.25	217. 552. 2174.	2423. 2882. 3526.	8850. 8844. 8023.	165. 8426. 22.	-6379. 338. -810.	-2618. 6672. 2896.	0.039 0.051 0.021
30 3	0.2764 2.95	0.8245 0.52	203. 668. 2017.	2256. 2760. 3332.	7164. 7985. 6909.	154. 10084. -174.	-6433. 403. -557.	-2954. 6006. 6882.	0.122 0.004 0.027
30 4	0.2784 2.77	0.8301 0.16	203. 605. 2138.	2393. 2952. 3459.	7291. 7905. 6904.	150. 9916. -189.	-6409. 377. -569.	-2918. 6281. 6495.	0.134 0.007 0.027

TAPERED TIP

RUN PT	V/OR BIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
30 5	0.2794 5.24	0.8286 0.34	217. 655. 2302.	2186. 2634. 3327.	7217. 6885. 5266.	134. 10174. -241.	-6411. 397. -475.	-2941. 6324. 5954.	0.160 0.007 0.025
30 6	0.2780 0.23	0.8292 -0.09	194. 446. 2142.	2408. 3154. 3850.	8106. 8871. 7019.	167. 8672. -199.	-6307. 273. -783.	-2687. 6580. 6584.	0.104 0.005 0.031
30 7	0.2793 3.05	0.8288 -1.33	219. 609. 2238.	2432. 3002. 3522.	7370. 7975. 6902.	130. 9893. -210.	-6397. 363. -600.	-2895. 6364. 6513.	0.145 0.007 0.026
30 8	0.2788 2.99	0.8295 2.07	192. 653. 2093.	2320. 2983. 3392.	7049. 7806. 6178.	134. 9886. -239.	-6374. 350. -629.	-2797. 6477. 6232.	0.125 0.006 0.026
30 9	0.2786 2.72	0.8297 0.30	212. 589. 2162.	2369. 2914. 3434.	7178. 7740. 6417.	137. 9844. -227.	-6374. 336. -674.	-2784. 6617. 6497.	0.133 0.008 0.027
30 10	0.3794 2.63	0.8278 0.20	401. 1128. 3888.	3293. 3842. 5031.	11441. 11292. 9462.	136. 15918. 393.	-6675. 707. 6.	-2754. 5169. 5359.	0.239 0.072 0.030
30 11	0.3800 2.84	0.8258 0.24	393. 1264. 4106.	3486. 4100. 5428.	11516. 11652. 8719.	137. 16043. 338.	-6660. 723. 128.	-2643. 5276. 3234.	0.225 0.075 0.035
30 12	0.3789 5.68	0.8285 0.35	396. 1470. 3504.	2648. 3235. 4274.	9600. 10176. 8526.	118. 16497. 356.	-6796. 867. 347.	-2943. 5057. 2945.	0.222 0.043 0.028
30 13	0.3776 -0.10	0.8281 0.13	411. 965. 4295.	4087. 4684. 5859.	13569. 13768. 10017.	152. 15357. 302.	-6524. 575. -95.	-2312. 5861. 3889.	0.183 0.066 0.041
30 14	0.3783 2.72	0.8291 -1.83	403. 1272. 4007.	3419. 4003. 5148.	11291. 11557. 9221.	120. 16297. 371.	-6709. 776. 196.	-2845. 5256. 4945.	0.224 0.056 0.033

TAPERED TIP

-B60

RUN PT	V/OR BIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC F6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
30 15	0.3792 2.80	0.8283 2.06	401. 1431. 3795.	3219. 3847. 5136.	11478. 11331. 8517.	130. 16417. 372.	-6675. 727. 148.	-2626. 5498. 5086.	0.248 0.052 0.031
30 16	0.3784 2.76	0.8289 0.24	407. 1396. 4012.	3378. 3983. 5303.	11591. 11480. 8981.	119. 16315. 340.	-6662. 717. 137.	-2584. 5578. 4662.	0.246 0.054 0.034
30 17	0.3773 0.32	0.8297 -0.71	504. 1610. 4683.	4132. 4813. 6160.	16226. 16196. 11277.	104. 22058. 674.	-6776. 852. 50.	-1854. 6407. 5923.	0.104 0.097 0.035
30 18	0.3786 5.21	0.8260 0.80	328. 1128. 3220.	2599. 3246. 4235.	7684. 8451. 6827.	125. 11219. -22.	-6547. 594. -136.	-2784. 5635. 3183.	0.252 0.039 0.018
30 19	0.3777 2.03	0.8298 0.37	463. 1290. 4553.	4110. 4759. 6246.	13601. 13671. 10443.	119. 15368. 315.	-6489. 523. -366.	-2166. 6304. 3264.	0.254 0.051 0.043
30 20	0.3784 3.30	0.8289 0.39	376. 1193. 3375.	2704. 3227. 4450.	9486. 9618. 9027.	108. 16506. 312.	-6745. 823. 227.	-2947. 5498. -3099.	0.223 0.044 0.020
32 1	0.3766 0.16	0.8271 0.01	313. 621. 5006.	4732. 5400. 4403.	10061. 9541. 7179.	309. 1244. -1769.	-5159. -1129. -1942.	357. 10068. 7140.	0.342 0.106 0.026
32 4	0.3755 0.22	0.8268 0.22	304. 417. 4632.	4531. 5095. 4136.	11225. 10979. 8720.	291. -521. -1533.	-5342. -917. -1825.	-207. 9520. 6599.	0.262 0.110 0.028
32 5	0.3756 0.20	0.8259 0.02	314. 408. 4584.	4577. 5173. 197.	12142. 12258. 9890.	278. -1053. -1410.	-5405. -853. -1821.	-340. 9441. 6581.	0.244 0.111 0.025
37 3	0.3769 0.20	0.8941 0.22	406. 656. 4021.	3967. 4980. 6560.	13713. 13336. 9449.	55. 11024. -450.	-6109. 176. -2.	-1539. 7554. 5843.	0.415 0.025 0.038

TAPERED TIP

1861

RUN PT	V/OR RIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC F6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
57 5	0.3740 0.04	0.8570 0.18	419. 848. NA	NA 4860. NA	NA NA NA	33. 12869. NA	NA 471. NA	NA NA NA	0.400 0.049 0.043
57 6	0.3753 0.14	0.8574 0.43	471. 1162. NA	NA 4866. NA	NA NA NA	13. 17833. NA	NA 765. NA	NA NA NA	0.358 0.058 0.039
57 7	0.3757 0.05	0.8951 0.46	518. 1527. NA	NA 5014. NA	NA NA NA	4. 21455. NA	NA 965. NA	NA NA NA	0.315 0.054 0.032
57 8	0.3762 0.01	0.9374 0.40	226. 1168. NA	NA 4350. NA	NA NA NA	-3. 11243. NA	NA 324. NA	NA NA NA	0.190 0.104 0.063
58 3	0.3741 0.11	0.9384 0.26	227. 1051. NA	NA 4468. NA	NA NA NA	39. 11319. NA	NA 102. NA	NA NA NA	0.176 0.061 0.068
58 4	0.3742 -0.01	0.9393 0.49	249. 1252. NA	NA 4561. NA	NA NA NA	16. 15423. NA	NA 346. NA	NA NA NA	0.185 0.071 0.069
58 5	0.3737 -0.18	0.9388 0.46	305. 1511. NA	NA 4504. NA	NA NA NA	-5. 18210. NA	NA 450. NA	NA NA NA	0.190 0.084 0.071
58 6	0.3765 -0.07	0.9376 0.52	366. 1486. NA	NA 4551. NA	NA NA NA	-14. 21402. NA	NA 577. NA	NA NA NA	0.217 0.080 0.066
58 7	0.3748 0.15	0.9378 0.46	370. 1556. NA	NA 4576. NA	NA NA NA	-23. 23113. NA	NA 638. NA	NA NA NA	0.188 0.080 0.065
58 8	0.3744 0.23	0.9395 0.27	245. 1150. NA	NA 4933. NA	NA NA NA	45. 10492. NA	NA -82. NA	NA NA NA	0.228 0.104 0.057

TAPERED TIP

1862

RUN PT	V/OR RIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
58 9	0.3742 0.06	0.9398 0.41	244. 1220. NA	NA 5059. NA	NA NA NA	34. 12118. NA	NA 45. NA	NA NA NA	0.243 0.120 0.050
58 17	0.3798 0.06	0.9298 0.44	282. 895. NA	NA 5011. NA	NA NA NA	54. 9652. NA	NA -54. NA	NA NA NA	0.273 0.080 0.055
58 11	0.3796 -0.12	0.9308 0.52	327. 1232. NA	NA 5060. NA	NA NA NA	31. 13240. NA	NA 132. NA	NA NA NA	0.276 0.113 0.053
58 12	0.3756 0.30	0.9393 0.29	351. 1670. NA	NA 4864. NA	NA NA NA	-4. 16572. NA	NA 313. NA	NA NA NA	0.260 0.115 0.059
58 15	0.3741 0.24	0.9408 0.33	273. 1168. NA	NA 3964. NA	NA NA NA	-13. 19085. NA	NA 627. NA	NA NA NA	0.100 0.075 0.055
58 16	0.3730 -0.01	0.9425 0.26	355. 1504. NA	NA 4061. NA	NA NA NA	-32. 24539. NA	NA 797. NA	NA NA NA	0.098 0.090 0.055
58 17	0.3749 0.30	0.9655 0.30	284. 1451. NA	NA 3889. NA	NA NA NA	-51. 19583. NA	NA 509. NA	NA NA NA	0.063 0.082 0.061
58 19	0.3743 0.24	0.9667 0.45	402. 1805. NA	NA 4107. NA	NA NA NA	-90. 28505. NA	NA 764. NA	NA NA NA	0.238 0.089 0.069
58 19	0.3744 0.17	0.9671 0.33	300. 1459. NA	NA 4559. NA	NA NA NA	-48. 18112. NA	NA 225. NA	NA NA NA	0.089 0.083 0.065
58 20	0.3752 0.14	0.9656 0.40	320. 1494. NA	NA 4660. NA	NA NA NA	-60. 20540. NA	NA 311. NA	NA NA NA	0.113 0.094 0.067

TAPERED TIP

RUN PT	V/OR BIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC F6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
58 21	0.3732 0.13	0.9692 0.45	371. 1721. NA	NA 4776. NA	NA NA NA	-80. 24126. NA	NA 423. NA	NA NA NA	0.157 0.120 0.086
58 22	0.3740 0.16	0.9670 0.58	411. 1892. NA	NA 4826. NA	NA NA NA	-84. 27953. NA	NA 587. NA	NA NA NA	0.289 0.108 0.047
58 23	0.3753 0.20	0.9650 0.60	267. 1371. NA	NA 5034. NA	NA NA NA	-0. 12661. NA	NA -91. NA	NA NA NA	0.213 0.138 0.062
58 24	0.3742 0.39	0.9665 0.16	311. 1624. NA	NA 5111. NA	NA NA NA	-36. 16516. NA	NA 100. NA	NA NA NA	0.269 0.160 0.059
58 26	0.3753 0.28	0.9655 0.33	54. 105. NA	NA 571. NA	NA NA NA	187. 3069. NA	NA 539. NA	NA NA NA	0.007 0.013 0.002

TAPERED TIP

-B64

PUN PT	V/OR 8IC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC F6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC T14 ACC L14 ACC
39 3	0.2006 0.21	0.7202 0.30	66. 179. 1368.	1650. 2043. 2638.	4700. 5441. 4702.	241. 3856. -604.	-6027. -90. -1635.	-2546. 4178. 4444.	0.030 0.053 0.012
39 4	0.2008 0.25	0.7186 0.32	104. 279. 1292.	1554. 1853. 2585.	4500. 4975. 5043.	221. 5331. -285.	-6241. 192. -1420.	-2925. 3248. 5250.	0.062 0.035 0.014
39 5	0.2013 0.14	0.7179 0.22	184. 362. 1128.	1642. 2129. 3227.	7612. 7226. 5926.	200. 7491. 27.	-6457. 485. -1191.	-3258. 2032. 5476.	0.058 0.055 0.003
39 6	0.2008 0.12	0.7204 0.45	275. 578. 1237.	1907. 2509. 3598.	8749. 8047. 6569.	199. 10494. 385.	-6659. 811. -1333.	-3565. -250. 5309.	0.090 0.053 0.007
39 7	0.2014 0.22	0.7173 0.39	332. 666. 1383.	2080. 2772. 3823.	9205. 8497. 6566.	204. 12489. 80.	-6819. 982. -747.	-3606. -860. 5131.	0.108 0.112 0.009
39 8	0.2014 0.16	0.7152 0.54	419. 730. 1319.	2028. 2657. 3579.	8760. 8357. 6519.	.. 14020. 748.	-6939. 1139. -437.	-3651. -1408. 4819.	0.124 0.124 0.013
39 9	0.2017 0.15	0.7159 0.27	90. 267. 1143.	1448. 1791. 2407.	4613. 5042. 4282.	224. 5675. -279.	-6328. 299. -1352.	-3113. -259. 4638.	0.044 0.037 0.006
39 10	0.2013 0.29	0.7182 0.28	180. 262. 1115.	1572. 1933. 2935.	7601. 7514. 5815.	199. 8139. 37.	-6527. 562. -1242.	-3397. -736. 4737.	0.043 0.086 0.003
39 11	0.2015 0.29	0.7175 0.40	282. 403. 1350.	1949. 2588. 3705.	8875. 8369. 6938.	195. 11929. 445.	-6823. 949. -1007.	-3814. -1504. 4486.	0.083 0.101 0.005
39 12	0.2007 0.20	0.7190 0.45	377. 653. 1642.	2256. 3907. 4062.	9241. 8625. 6950.	192. 16203. 840.	-7067. 1261. -654.	-4098. -2124. 4083.	0.137 0.114 0.014

RECTANGULAR TIP

RUN PT	V/OR BIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NIV4 ACC TL4 ACC LN4 ACC
39 13	0.2006 0.19	0.7199 0.45	444. 638. 1530.	2177. 2787. 3883.	8862. 8316. 6325.	180. 18421. 987.	-7170. 1402. -52.	-4190. -2393. 4185.	0.149 0.100 0.020
39 15	0.2018 0.05	0.7177 0.01	99. 160. 2146.	2068. 2651. 3489.	5307. 6588. 5727.	266. 3423. -1190.	-5575. -693. -2195.	-1623. 3774. 5096.	0.086 0.052 0.018
39 16	0.2017 0.13	0.7184 0.06	82. 127. 1908.	1894. 2380. 3002.	4744. 5860. 5145.	256. 2949. -949.	-5724. -466. -2117.	-1937. 3184. 4830.	0.051 0.055 0.017
39 17	0.2008 0.14	0.7169 0.18	82. 131. 1434.	1690. 2039. 2531.	4748. 5417. 4450.	245. 3319. -653.	-5904. -199. -1787.	-2156. 2713. 4658.	0.037 0.051 0.011
39 18	0.2024 0.14	0.7154 0.28	124. 254. 1268.	1612. 2004. 2779.	5225. 5773. 5195.	220. 4412. -322.	-6121. 77. -1653.	-2559. 2005. 4741.	0.063 0.049 0.010
39 19	0.2012 0.29	0.7176 0.26	190. 315. 1150.	1590. 2048. 3141.	7729. 7341. 7068.	206. 6102. -46.	-6293. 314. -1514.	-2749. 1358. 4832.	0.058 0.055 0.001
39 20	0.2015 0.10	0.7178 0.36	275. 582. 1276.	1879. 2441. 3534.	8107. 7973. 7474.	212. 8972. 347.	-6520. 626. -1225.	-2933. 98. 4750.	0.101 0.103 0.009
39 21	0.2013 0.21	0.7181 0.42	336. 674. 1368.	1973. 2620. 3716.	8735. 8219. 7569.	215. 10646. 523.	-6629. 774. -862.	-3031. -237. 4874.	0.111 0.110 0.011
39 22	0.2022 0.25	0.7160 0.51	432. 776. 1352.	1909. 2614. 3700.	8681. 8291. 7491.	211. 12737. 697.	-6735. 920. -391.	-2985. -360. 4919.	0.112 0.122 0.010
39 23	0.2021 0.15	0.7165 0.37	125. 206. 1694.	1909. 2302. 2760.	5319. 5892. 4624.	312. -627. -953.	-5482. -658. -2210.	-982. 2946. 5679.	0.004 0.076 0.003

RECTANGULAR TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	F5 MEAN E6 MEAN E7 MEAN	NV4 ACC T14 ACC LN4 ACC
39 24	0.2019 0.19	0.7149 0.36	133. 262. 1714.	1971. 2323. 2792.	7852. 8063. 6522.	298. -1474. -689.	-5658. -430. -2103.	-1382. 2380. 5426.	0.073 0.110 0.001
39 25	0.2015 0.16	0.7156 0.47	223. 252. 1717.	1961. 2375. 2979.	7454. 7522. 6117.	278. -1886. -408.	-5824. -223. -1997.	-1734. 1891. 5335.	0.102 0.093 0.001
39 26	0.2009 0.33	0.7172 0.38	279. 373. 1782.	2035. 2464. 3426.	10424. 10142. 8413.	264. -1144. -138.	-6048. 61. -1870.	-1968. 1519. 5283.	0.104 0.116 0.003
39 27	0.2019 0.25	0.7178 0.54	362. 650. 1731.	2092. 2681. 3811.	12700. 12161. 10313.	257. 648. 167.	-6254. 322. -1752.	-2088. 1275. 5373.	0.135 0.125 0.007
39 28	0.2014 0.19	0.7185 0.71	399. 698. 1726.	2178. 2658. 3851.	13234. 12493. 10646.	249. 2158. 302.	-6362. 435. -1580.	-2229. 1282. 5512.	0.131 0.116 0.007
39 29	0.2021 0.22	0.7153 0.10	116. 182. 1796.	1956. 2375. 2841.	4563. 5200. 4151.	315. 936. -1207.	-5339. -852. -2454.	-666. 3475. 5765.	0.031 0.065 0.005
40 3	0.3016 0.24	0.7780 0.12	122. 289. 2240.	2704. 2881. 3474.	6368. 7087. 5115.	149. 5416. -535.	-6570. 102. -1835.	-2695. 2540. 3812.	0.125 0.066 0.031
40 4	0.3009 0.26	0.7796 0.32	143. 366. 2019.	2575. 2673. 3212.	7751. 8033. 6153.	127. 7720. -192.	-6831. 324. -1674.	-3019. 2125. 3836.	0.083 0.072 0.023
40 5	0.2997 0.13	0.7813 0.36	229. 433. 1978.	2730. 2833. 3444.	8747. 8366. 6448.	101. 10793. 173.	-7056. 563. -1577.	-3318. 1773. 3821.	0.055 0.057 0.030
40 6	0.2996 0.16	0.7799 0.33	320. 531. 2024.	2728. 3047. 3649.	9609. 8882. 6746.	104. 14743. 582.	-7438. 900. -1284.	-3788. 1222. 3464.	0.046 0.022 0.030

RECTANGULAR TIP

107

RUN PT	V/OR RIC	MAT BIS	PL OSC O OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN O MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
40 7 RECTANGULAR TIP	0.3005 0.21	0.7792 0.43	384. 642. 2034.	2733. 3173. 4105.	10541. 10074. 7752.	96. 17450. 773.	-7611. 1083. -1123.	-4021. 989. 3345.	0.037 0.026 0.025
40 8	0.3005 0.27	0.7808 0.47	476. 680. 2287.	2816. 3068. 4328.	10568. 10853. 8167.	75. 20880. 966.	-7798. 1240. -904.	-4151. 1002. 3500.	0.014 0.057 0.023
40 9	0.3019 0.22	0.7775 0.21	116. 368. 1490.	1945. 2022. 2524.	5516. 5868. 4555.	112. 7117. -260.	-7039. 584. -946.	-3478. 2774. 2983.	0.087 0.070 0.020
40 10	0.3008 0.22	0.7804 0.26	226. 370. 1531.	2008. 2065. 2707.	6847. 6912. 5120.	99. 11297. 88.	-7244. 759. -837.	-3616. 2804. 3230.	0.043 0.058 0.018
40 11	0.3009 0.25	0.7789 0.35	309. 480. 1536.	2081. 2212. 2895.	7962. 7672. 5725.	85. 16278. 497.	-7556. 1066. -639.	-4007. 1677. 3026.	0.035 0.027 0.022
40 12	0.2981 0.24	0.7844 0.24	390. 649. 1646.	2133. 2397. 3389.	9252. 8614. 6856.	81. 22122. 889.	-7879. 1395. -376.	-4277. 1232. 2743.	0.050 0.056 0.030
40 13	0.2995 0.22	0.7808 0.32	440. 656. 1819.	2293. 2532. 3732.	9681. 8987. 6862.	60. 25400. 1101.	-7985. 1480. -380.	-4180. 1313. 2931.	0.033 0.057 0.022
40 14	0.2999 0.18	0.7810 0.03	170. 261. 2986.	3616. 4158. 5224.	6393. 8665. 6895.	218. 3823. -1516.	-5647. -733. -2486.	-770. 6274. 4786.	0.228 0.046 0.032
40 15	0.3012 0.16	0.7800 0.01	147. 209. 2896.	3503. 3838. 4614.	6265. 7724. 6050.	205. 3068. -1183.	-5861. -550. -2443.	-1218. 5838. 4576.	0.155 0.055 0.030
40 16	0.3009 0.20	0.7793 0.28	126. 233. 2794.	3301. 3528. 4112.	6536. 6929. 4861.	193. 3259. -834.	-6098. -348. -2428.	-1615. 5473. 4522.	0.150 0.069 0.020

RUN PT	V/OR RIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC F6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	F5 MEAN E6 MEAN E7 MEAN	NV4 ACC T14 ACC LN4 ACC
40 17	0.2997 0.21	0.7821 0.26	131. 367. 2513.	3128. 3314. 3732.	7510. 7788. 5726.	168. 4175. -531.	-6356. -114. -2351.	-2064. 5084. 4404.	0.004 0.061 0.027
40 18	0.3007 0.13	0.7790 0.44	178. 428. 2378.	3049. 3196. 3843.	8648. 8851. 6609.	150. 5601. -209.	-6597. 110. -2116.	-2359. 4657. 4284.	0.070 0.077 0.028
40 19	0.2992 0.21	0.7818 0.41	293. 446. 2293.	3180. 3333. 4216.	9611. 9744. 7300.	130. 7884. 102.	-6833. 345. -1847.	-2604. 4406. 4305.	0.055 0.045 0.027
40 20	0.2997 0.25	0.7832 0.45	417. 795. 2545.	3298. 3650. 4252.	12179. 12704. 9045.	95. 12107. 493.	-7126. 619. -1842.	-2860. 4159. 4540.	0.008 0.053 0.025
40 21	0.3013 0.33	0.7802 0.54	602. 874. 2790.	3241. 3580. 4205.	12341. 13289. 9329.	77. 15729. 706.	-7298. 734. -1720.	-2777. 4311. 4865.	0.044 0.068 0.016
41 3	0.3002 0.33	0.7804 0.16	168. 272. 3281.	3249. 3892. 4340.	7854. 7510. 5907.	205. 1645. -1380.	-5243. -933. -2765.	-404. 8650. 6260.	0.145 0.060 0.039
41 4	0.3012 0.25	0.7805 0.12	161. 238. 3027.	3084. 3655. 4069.	8317. 8380. 6721.	188. 106. -1050.	-5458. -711. -2486.	-964. 8103. 5998.	0.099 0.070 0.044
41 5	0.2996 0.12	0.7827 0.34	186. 351. 2945.	3044. 3585. 4142.	9158. 9304. 7562.	178. -884. -758.	-5649. -483. -2310.	-1392. 7621. 5802.	0.048 0.080 0.030
41 6	0.2995 0.16	0.7814 0.30	222. 550. 2787.	2942. 3549. 4282.	10516. 10096. 8111.	145. -839. -530.	-5849. -232. -2106.	-2096. 6966. 5475.	0.054 0.071 0.038
41 7	0.2994 0.16	0.7824 0.50	337. 690. 2698.	3055. 3815. 4862.	14335. 13974. 11579.	119. 273. -233.	-6094. 93. -1758.	-2652. 6269. 5132.	0.020 0.073 0.044

RECTANGULAR TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NY4 ACC TL4 ACC LN4 ACC
41 8	0.3020 0.19	0.7779 0.74	398. 705. 2509.	3140. 3803. 4829.	16087. 15502. 12766.	99. 1226. -95.	-6187. 198. -1677.	-2889. 5936. 5018.	0.020 0.101 0.030
41 9	0.2988 0.37	0.7856 0.52	518. 797. 2543.	3211. 3865. 4769.	17009. 16032. 13242.	72. 3394. 60.	-6322. 314. -1713.	-3008. 5887. 5195.	0.034 0.077 0.030
41 10	0.3787 0.41	0.8277 0.37	316. 671. 3787.	3595. 4504. 5802.	10638. 11349. 9091.	73. 9482. -154.	-6303. 321. -1233.	-2487. 5967. 4310.	0.348 0.090 0.029
41 11	0.3759 0.25	0.8271 0.23	317. 582. 3704.	3573. 4447. 5781.	10128. 10987. 8272.	68. 9451. -121.	-6314. 322. -1305.	-2489. 5877. 4335.	0.341 0.088 0.032
41 12	0.3767 0.16	0.8253 0.28	354. 759. 3965.	3600. 4479. 5896.	10746. 11318. 8917.	41. 11233. 23.	-6407. 424. -1276.	-2543. 5653. 4278.	0.370 0.081 0.035
41 13	0.3777 0.17	0.8248 0.54	419. 1000. 4161.	3735. 4501. 5957.	11422. 12128. 10135.	48. 15406. 436.	-6654. 712. -1029.	-2729. 5225. 4033.	0.320 0.075 0.036
41 14	0.3754 0.22	0.8283 0.34	428. 1148. 4209.	3852. 4558. 5881.	12633. 12987. 10172.	38. 18057. 632.	-6810. 895. -827.	-2814. 5020. 3995.	0.263 0.064 0.037
41 15	0.3748 0.36	0.8296 0.43	497. 1453. 4522.	3955. 4753. 6192.	13494. 13930. 11923.	53. 21625. 871.	-6944. 1038. -377.	-2694. 5048. 4290.	0.222 0.061 0.040
41 16	0.3775 0.30	0.8254 0.40	271. 470. 2662.	2564. 3196. 4201.	7479. 8348. 6409.	39. 10168. -51.	-6640. 726. -411.	-3368. 4800. 3391.	0.251 0.070 0.033
41 17	0.3758 0.02	0.8283 0.19	361. 817. 3131.	2789. 3353. 4505.	8044. 9144. 7830.	22. 16079. 352.	-6839. 928. -204.	-3460. 4636. 3500.	0.272 0.045 0.042

RECTANGULAR TIP

-B70-

RUN PT	V/OR BIC	MAT BIC	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	F5 MEAN F6 MEAN F7 MEAN	NVZ ACC TL4 ACC LN4 ACC
41 18	0.3773 0.13	0.8258 0.38	411. 1041. 3288.	2798. 3396. 4433.	9631. 10314. 8962.	26. 21598. 787.	-7124. 1256. 97.	-3650. 3916. 3041.	0.176 0.077 0.032
41 19	0.3755 0.26	0.8296 0.36	434. 1076. 3335.	2784. 3426. 4735.	9798. 10543. 9232.	24. 23298. 833.	-7165. 1322. 226.	-3542. 3886. 3061.	0.161 0.065 0.024
41 20	0.3776 0.12	0.8253 0.20	300. 401. 4887.	4721. 5806. 7174.	9927. 10874. 9105.	161. 4361. -1666.	-5234. -898. -2162.	-419. 8206. 5818.	0.365 0.060 0.032
41 21	0.3777 0.20	0.8253 0.10	323. 410. 4941.	4771. 5880. 7251.	10581. 11562. 8955.	149. 3389. -1326.	-5381. -723. -2013.	-727. 7795. 5713.	0.402 0.070 0.039
41 22	0.3772 0.54	0.8261 0.24	293. 345. 4651.	4565. 5620. 6970.	9812. 10887. 8865.	132. 3552. -1055.	-5551. -534. -1841.	-1171. 7302. 5449.	0.401 0.073 0.038
41 23	0.3772 0.26	0.8267 0.28	290. 398. 4249.	4303. 5339. 6543.	11976. 11809. 9970.	113. 4209. -733.	-5761. -297. -1667.	-1499. 6845. 5200.	0.373 0.082 0.034
41 24	0.3747 0.14	0.8300 0.16	329. 716. 4137.	4197. 5138. 6297.	12061. 11936. 10010.	98. 5664. -444.	-5937. -71. -1291.	-1654. 6543. 5019.	0.339 0.073 0.044
41 25	0.3750 0.09	0.8285 0.45	376. 882. 4282.	4181. 5142. 6179.	13678. 14071. 11723.	68. 8430. -97.	-6118. 145. -1054.	-1960. 6121. 4859.	0.308 0.083 0.051
41 26	0.3775 0.08	0.8238 0.37	404. 1122. 4517.	4091. 5025. 6083.	14765. 15330. 12967.	54. 10622. 101.	-6223. 244. -898.	-1085. 6187. 5009.	0.257 0.065 0.055
41 27	0.3770 0.34	0.8252 0.46	508. 1367. 4790.	4103. 4832. 5958.	15909. 16399. 14192.	28. 13836. 319.	-6354. 378. -333.	-1867. 6143. 5158.	0.254 0.054 0.060

RECTANGULAR TIP

B71

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NIV4 ACC T14 ACC L14 ACC
41 28	0.3750 0.03	0.8291 0.65	654. 1606. 5334.	4341. 5129. 6348.	17246. 17666. 14944.	17. 15875. 377.	-6341. 367. -255.	-1481. 5791. 5577.	0.285 0.063 0.059
42 3	0.2586 2.12	0.7880 -0.34	234. 529. 2227.	2501. 2900. 3547.	9177. 8644. 7065.	53. 10341. 172.	-6604. 553. -432.	-3079. 4751. 3274.	0.074 0.058 0.021
42 4	0.3008 2.26	0.7881 -0.01	232. 512. 2141.	2399. 2786. 3432.	8548. 8093. 6812.	44. 10402. 166.	-6606. 559. -406.	-2996. 4826. 3230.	0.081 0.059 0.023
42 5	0.3013 4.60	0.7874 0.15	232. 759. 2135.	2202. 2501. 3074.	7325. 7264. 6308.	37. 11006. 148.	-6681. 659. -210.	-3144. 4633. 2533.	0.083 0.046 0.020
42 6	0.3011 -0.56	0.7868 -0.07	234. 474. 2180.	2612. 3132. 3898.	9666. 9289. 7931.	67. 8762. 116.	-6464. 417. -638.	-2616. 5263. 3147.	0.055 0.064 0.029
42 7	0.3022 2.05	0.7858 -3.14	242. 624. 2420.	2499. 2918. 3572.	9482. 8910. 7295.	45. 10198. 153.	-6603. 558. -418.	-3044. 4840. 2547.	0.063 0.061 0.022
42 8	0.3015 2.11	0.7875 1.39	252. 637. 2214.	2475. 2902. 3480.	8793. 8712. 7116.	57. 10357. 125.	-6569. 525. -453.	-2746. 5098. 2839.	0.085 0.059 0.025
42 9	0.3018 2.11	0.7842 -0.92	221. 541. 2160.	2452. 2808. 3576.	8756. 8285. 7482.	49. 10206. 168.	-6599. 547. -448.	-2989. 4930. 2717.	0.070 0.060 0.020
42 10	0.3004 0.25	0.7866 -1.33	318. 583. 2158.	2627. 3275. 3959.	10180. 9632. 8279.	50. 12908. 527.	-6757. 717. -422.	-3037. 4856. 2869.	0.036 0.041 0.029
42 11	0.3019 4.17	0.7836 -0.34	177. 555. 2278.	2187. 2589. 3299.	7301. 7399. 6374.	52. 7262. -237.	-6416. 364. -448.	-2685. 5243. 2353.	0.128 0.067 0.012

RECTANGULAR TIP

-B72-

RUN PT	V/OR RIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
42 12	0.3022 2.11	0.7865 0.20	237. 550. 2199.	2465. 2833. 3518.	8784. 8417. 7099.	52. 10177. 105.	-6547. 496. -490.	-2735. 5198. 2499.	0.081 0.062 0.022
42 13	0.3021 0.14	0.7846 -0.13	351. 544. 2075.	2568. 3212. 3957.	9978. 9699. 8186.	49. 12943. 538.	-6778. 748. -387.	-3128. 4826. 2768.	0.034 0.025 0.025
42 14	0.3016 4.11	0.7843 0.77	180. 609. 2150.	2098. 2488. 3109.	7289. 7375. 6459.	48. 7493. -246.	-6414. 377. -422.	-2686. 5349. 2310.	0.123 0.057 0.014
42 15	0.3026 2.15	0.7843 0.27	242. 537. 2152.	2432. 2777. 3499.	8669. 3280. 6955.	50. 10209. 129.	-6570. 519. -471.	-2787. 5197. 2404.	0.080 0.058 0.021
42 16	0.3024 2.57	0.7837 0.14	231. 531. 1985.	2080. 2345. 3006.	7872. 7705. 6212.	42. 10819. 140.	-6664. 634. -257.	-3045. 4890. 2016.	0.064 0.063 0.016
42 17	0.3029 1.75	0.7843 0.02	236. 471. 2220.	2584. 2936. 3745.	9308. 8821. 7311.	60. 8912. 117.	-6468. 412. -659.	-2534. 5533. 2506.	0.058 0.062 0.025
42 18	0.3024 2.26	0.7840 0.06	239. 529. 2104.	2403. 2762. 3455.	8458. 8216. 6762.	49. 10183. 120.	-6573. 526. -446.	-2804. 5254. 2176.	0.082 0.061 0.021
42 19	0.3027 2.19	0.7838 0.27	237. 528. 2134.	2374. 2723. 3414.	8588. 8183. 6715.	53. 10131. 128.	-6573. 522. -448.	-2809. 5313. 2156.	0.082 0.057 0.022
42 20	0.3032 2.33	0.7835 0.76	241. 544. 2231.	2407. 2744. 3433.	8508. 8094. 6665.	55. 10129. 88.	-6549. 498. -491.	-2711. 5418. 2185.	0.100 0.057 0.024
42 21	0.3040 2.16	0.7835 -0.23	222. 535. 2146.	2419. 2819. 3436.	8461. 8363. 6727.	57. 10115. 152.	-6587. 540. -436.	-2877. 5279. 2066.	0.072 0.061 0.010

RECTANGULAR TIP

573

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	VV4 ACC TL4 ACC LN4 ACC
42	0.3759	0.8257	278.	4486.	10432.	181.	-5014.	613.	0.372
24	0.13	0.20	575.	5537.	10244.	1177.	-1177.	8821.	0.126
			4894.	6773.	8508.	-1720.	-2099.	4505.	0.024
42	0.3750	0.8250	291.	4250.	11918.	161.	-5234.	-113.	0.264
25	0.13	0.32	391.	5141.	11540.	-615.	-924.	9155.	0.135
			4486.	6296.	9469.	-1438.	-1884.	4039.	0.025
42	0.3742	0.8288	305.	4201.	13350.	143.	-5419.	-545.	0.235
26	0.03	0.57	528.	5049.	13794.	-1566.	-690.	7812.	0.131
			4319.	6236.	11352.	-1192.	-1709.	3810.	0.023
42	0.3760	0.8255	328.	4264.	15590.	107.	-5602.	-1710.	0.293
27	0.28	0.44	793.	5082.	15077.	-1291.	-450.	7142.	0.113
			4210.	6324.	12224.	-959.	-1467.	3354.	0.017
42	0.3764	0.8246	316.	4282.	16901.	95.	-5727.	-1541.	0.256
28	0.15	0.45	825.	4991.	16009.	-880.	-298.	6774.	0.132
			4146.	6185.	12786.	-790.	-1316.	3083.	0.015
42	0.3758	0.8252	378.	4392.	18645.	75.	-5834.	-1829.	0.220
29	0.15	0.66	1006.	5184.	18302.	49.	-173.	6498.	0.138
			4303.	6453.	14683.	-614.	-1227.	2992.	0.018
42	0.3739	0.8280	398.	4251.	20223.	63.	-5895.	-1784.	0.227
30	0.30	0.33	1146.	4972.	19073.	822.	-88.	6515.	0.116
			4036.	6301.	15380.	-581.	-1128.	2946.	0.017
43	0.3852	0.8343	450.	3701.	12544.	102.	-6753.	-2537.	0.324
3	2.17	-0.08	1336.	4337.	17428.	17076.	825.	6158.	0.061
			4405.	5720.	5128.	447.	-126.	4175.	0.048
43	0.3859	0.8313	447.	3645.	12061.	103.	-6761.	-2592.	0.326
4	2.33	-0.06	1400.	4267.	11980.	16959.	829.	6285.	0.056
			4329.	5680.	9083.	454.	-122.	4057.	0.045
43	0.3865	0.8336	442.	3029.	10395.	81.	-6835.	-2737.	0.325
5	5.21	0.21	1559.	3662.	11058.	16941.	940.	6157.	0.049
			3887.	5223.	8238.	416.	106.	3649.	0.048

RECTANGULAR TIP

-B74-

PUN PT	V/OR RIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	P5 MEAN P6 MEAN P7 MEAN	NV4 ACC T14 ACC LN4 ACC
43 6	0.3861 -0.21	0.8311 0.07	446. 1128. 4613.	4195. 4886. 6173.	13627. 13955. 10295.	104. 16083. 407.	-2257. 6886. 4252.	0.289 0.068 0.041
43 7	0.3886 2.23	0.8288 -2.14	416. 1364. 4374.	3613. 4237. 5504.	12213. 12373. 9509.	77. 16624. 449.	-2728. 6181. 3430.	0.251 0.075 0.042
43 8	0.3891 2.54	0.8283 1.22	443. 1301. 4271.	3561. 4211. 5677.	11383. 11427. 8924.	88. 16824. 450.	-2543. 6460. 3735.	0.338 0.064 0.043
43 9	0.3890 2.38	0.8275 -0.08	486. 1378. 4364.	3634. 4257. 5668.	12369. 12366. 9455.	31. 16709. 409.	-2528. 6423. 3720.	0.312 0.064 0.041
43 10	0.3893 1.26	0.8269 -0.58	490. 1296. 4488.	3957. 4627. 5986.	13802. 14016. 10335.	75. 18973. 615.	-2397. 6481. 3875.	0.223 0.082 0.043
43 11	0.3899 3.72	0.8253 0.06	405. 1180. 3872.	3163. 3804. 5148.	10355. 10576. 8352.	90. 14303. 211.	-2516. 6525. 3741.	0.326 0.051 0.039
43 12	0.3907 2.51	0.8254 -0.15	416. 1464. 4380.	3667. 4303. 5708.	12216. 12336. 9090.	90. 16566. 398.	-2511. 6353. 3484.	0.291 0.068 0.040
45 3	0.3895 2.51	0.8289 -0.23	429. 1427. 4317.	4192. 4206. 5529.	11988. 12046. 9792.	118. 16804. 512.	-2970. 210. -271.	0.206 0.061 0.051
45 4	0.3898 3.21	0.8268 -0.27	403. 1103. 3477.	3225. 3286. 4467.	9027. 9789. 8357.	131. 16624. 453.	-2211. -112. -816.	0.240 0.049 0.041
46 3	0.3757 0.20	0.8973 0.22	460. 492. 4077.	4319. 5041. 6798.	14114. 13775. 9512.	91. 9883. -494.	-1568. 5859. 5944.	0.444 0.018 0.036

RECTANGULAR TIP

-B75-

RUN PT	V/OR BIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC T14 ACC LN4 ACC
46 4	0.3769 0.08	0.8963 0.30	485. 795. 4069.	4291. 5129. 7079.	14380. 14206. 10211.	33. 13990. -121.	-6447. 372. -800.	-1573. 5622. 5943.	0.434 0.029 0.036
46 5	0.3751 0.13	0.8983 .42	485. 1008. 4087.	4189. 5020. 6955.	14100. 13894. 10806.	-56. 16646. 84.	-6614. 559. 1119.	-1800. 5411. 5848.	0.396 0.037 0.035
46 6	0.3752 0.36	0.8978 0.43	532. 1233. 4255.	4254. 5032. 7371.	14483. 14238. 11505.	-32. 19407. 256.	-6730. 684. 3471.	-1885. 5300. 5835.	0.302 0.036 0.028
46 7	0.3753 0.14	0.8976 0.43	635. 1496. 4137.	4158. 6919. 7062.	13341. 13180. 12470.	-81. 22982. 452.	-6915. 910. 3472.	-1991. 4830. 5781.	0.330 0.037 0.020
46 8	0.3745 0.18	0.8979 0.39	602. 1608. 4116.	4137. 4871. 6870.	13627. 14350. 13768.	-8. 25053. 536.	-7009. 991. 4159.	-1912. 3603. 6103.	0.299 0.036 0.026
46 9	0.3768 0.19	0.8966 0.13	389. 576. 3076.	3317. 3922. 9637.	11698. 11648. 8687.	37. 12735. -239.	-6689. 679. 12266.	-2316. 3078. 5448.	0.322 0.022 0.046
46 10	0.3768 0.16	0.8986 0.31	507. 837. 3119.	3066. 3733. 5841.	11597. 11296. 8598.	49. 15965. -67.	-6845. 822. 10665.	-2550. 2728. 5280.	0.304 0.031 0.046
46 11	0.3760 0.31	0.8961 0.39	461. 875. 3382.	3338. 4046. 6746.	13065. 12849. 9657.	4. 19103. 112.	-6893. 857. 10557.	-2369. 2968. 5473.	0.328 0.025 0.052
46 12	0.3756 0.16	0.8970 0.41	734. 1159. 3420.	3330. 3991. 6709.	12308. 12435. 10857.	-55. 26688. 611.	-7207. 1199. 11675.	-2575. 2617. 5340.	0.241 0.028 0.055
46 13	0.3753 0.32	0.8977 0.52	583. 1455. 3446.	3256. 4026. 9202.	11603. 11677. 10945.	-19. 30996. 749.	-7348. 1376. 12527.	-2385. 2599. 5408.	0.216 0.031 0.056

RECTANGULAR TIP

RUN PT	V/OR RIC	MAT RIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	F5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC IN4 ACC
46 14	0.3732 0.05	0.8999 0.05	431. 922. 5067.	5447. 5887. 8147.	14051. 13526. 9926.	154. 6286. -1993.	-5182. -1031. 3275.	777. 6955. 8262.	0.334 0.015 0.055
46 15	0.3774 0.16	0.8937 0.25	446. 941. 5072.	5276. 5872. 8528.	14370. 13863. 9881.	143. 4780. -1623.	-5382. -786. 2771.	223. 6247. 7955.	0.392 0.020 0.063
46 16	0.3768 0.31	0.8950 0.23	461. 906. 5174.	5276. 6052. 9011.	15569. 15358. 10467.	134. 4752. -1309.	-5545. -600. 3959.	-182. 5572. 7731.	0.451 0.024 0.074
46 17	0.3749 0.15	0.8991 0.09	436. 931. 5012.	5180. 6039. 8385.	15770. 15426. 10188.	124. 5545. -1035.	-5701. -425. 4337.	-384. 5190. 7607.	0.401 0.027 0.035
46 18	0.3771 0.32	0.8949 0.26	613. 788. 4765.	5056. 5907. 7921.	15437. 15007. 10195.	178. 6680. -845.	-5851. -242. 3364.	-559. 4528. 7490.	0.472 0.037 0.036
46 19	0.3728 0.25	0.9019 0.58	455. 737. 4742.	5117. 6008. 8434.	16087. 15554. 10783.	125. 7864. -678.	-5936. -152. 3885.	-498. 4343. 7979.	0.473 0.051 0.033
46 20	0.3757 0.14	0.8977 0.39	497. 780. 4769.	5177. 6077. 8006.	17052. 16288. 11690.	76. 9533. -517.	-6030. -27. -630.	-591. 4110. 7861.	0.464 0.061 0.034

RECTANGULAR TIP

-B77-

SECTION C

Tabulated Detailed Loads Data

RUN 11 POINT 14 SNEPT/TAPERED TIP

V/OR = 0.202 ALFS,U = 10.0 CLR/S = 0.11135 CP/S = -0.000651
 MAT = 0.716 THETA = 8.0 CXR/S = -0.02296 RHO = 0.002280

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	-243.7		-6357.0		-135.3		-1661.1	
1	406.8	-1077.5	-590.9	1318.8	519.1	-1190.3	616.9	-1398.6
2	-544.0	175.6	985.4	-245.8	-1176.6	288.3	-1748.2	457.5
3	42.8	-245.9	-74.5	-148.5	105.8	300.5	52.6	628.1
4	-85.9	-252.4	50.5	54.1	92.7	14.8	288.1	191.0
5	91.8	-63.4	47.5	-28.8	-27.7	-41.2	-2.6	-121.8
6	57.1	-26.2	20.3	-54.6	-20.2	-7.5	3.3	-82.8
7	121.9	62.9	131.7	78.0	-121.1	-93.7	3.7	-12.5
8	-32.9	93.1	-79.0	145.6	42.3	-123.8	-47.7	40.9
9	-8.2	25.4	-19.7	45.9	4.1	-44.1	-12.0	16.9
10	2.9	1.1	-5.3	-6.3	-27.9	-30.1	-18.0	-24.3

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK LOAD		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	153.7		-1686.2		5877.5		5487.1	
1	21.9	219.7	-3111.7	4344.0	-2675.1	3592.1	-2016.6	2566.5
2	46.5	11.3	3406.4	-1081.6	3832.4	-1242.7	3541.2	-1368.4
3	58.4	-50.7	-902.5	-676.4	-915.4	-1034.8	-626.4	-1250.8
4	1.6	-33.1	407.9	-90.1	44.8	-184.4	-288.0	-426.3
5	23.6	36.3	678.1	1580.3	527.8	1514.0	397.4	1330.5
6	16.8	15.8	85.5	494.8	46.9	536.7	-20.3	532.0
7	10.6	6.8	631.0	212.3	608.7	273.1	271.6	27.4
8	3.4	6.0	-107.7	344.9	-128.9	335.9	29.0	7.1
9	-3.0	-0.6	47.6	179.3	62.0	223.4	94.1	89.1
10	-1.6	-3.1	57.9	-68.9	129.6	-49.9	79.8	-113.1

RUN 11 POINT 14 SWEEP/TAPERED TIP

V/OR = 0.202 ALFS,U = 10.0 CLR/S = 0.11135 CP/S = -0.000691
 MAT = 0.716 I/PETA = 8.0 CXR/S = -0.02296 RHO = 0.00228C

NORMAL BENDING MOMENT PITCH LINK EDGEWISE BENDING MOMENT

	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3K	.5R	.6K	.7K	LOAD	.5R	.6R	.7R
PSI								
0.00	-191.	-5891.	-745.	-2525.	375.	-496.	7410.	6949.
11.25	-629.	-5681.	-869.	-2182.	385.	877.	8485.	6870.
22.50	-1217.	-6089.	-337.	-1846.	299.	-1323.	6136.	5427.
33.75	-1299.	-6475.	5.	-1688.	222.	-3933.	3584.	3740.
45.00	-632.	-5178.	-256.	-1524.	244.	-3955.	3434.	2850.
56.25	-4.	-5758.	-489.	-1421.	332.	-2085.	4980.	3544.
67.50	-111.	-6066.	-299.	-1621.	405.	-456.	6376.	5287.
78.75	-594.	-6382.	-68.	-1839.	437.	652.	7186.	6649.
90.00	-811.	-5980.	-258.	-1777.	436.	1632.	7876.	6877.
101.25	-861.	-5347.	-730.	-1787.	406.	1486.	7870.	6065.
112.50	-1141.	-5230.	-949.	-2180.	362.	80.	6829.	5304.
123.75	-1511.	-5365.	-932.	-2768.	332.	-125.	6778.	6227.
135.00	-1584.	-5144.	-1245.	-3346.	324.	2457.	9379.	8768.
146.25	-1435.	-4642.	-1841.	-3796.	313.	6005.	12920.	11481.
157.50	-1426.	-4389.	-2084.	-3990.	273.	7801.	14720.	12403.
168.75	-1569.	-4577.	-1908.	-3988.	207.	6982.	14095.	12172.
180.00	-1502.	-4879.	-1705.	-3842.	146.	4823.	12194.	10709.
191.25	-1626.	-5054.	-1514.	-3442.	112.	3164.	10711.	9348.
202.50	-354.	-5403.	-1145.	-2886.	104.	1868.	9750.	8622.
213.75	217.	-6221.	-491.	-2304.	118.	-602.	7592.	7181.
225.00	657.	-7190.	416.	-1438.	137.	-3739.	4315.	4851.
236.25	1041.	-7887.	1295.	-192.	115.	-5927.	1890.	2821.
247.50	1259.	-8386.	1950.	1028.	30.	-7868.	-92.	620.
258.75	1208.	-8769.	2474.	1939.	-79.	-10366.	-2848.	-2187.
270.00	1054.	-8793.	2707.	2461.	-162.	-11504.	-4307.	-3622.
281.25	957.	-8467.	2381.	2286.	-185.	-9994.	-2607.	-2326.
292.50	859.	-8174.	1780.	1223.	-124.	-7300.	573.	774.
303.75	775.	-7935.	1152.	-324.	-12.	-4873.	3564.	4381.
315.00	797.	-7434.	342.	-1680.	77.	-3569.	5687.	6747.
326.25	752.	-6814.	-306.	-2426.	120.	-4257.	5459.	6451.
337.50	445.	-6487.	-337.	-2635.	174.	-5431.	3760.	5227.
348.75	79.	-6293.	-324.	-2645.	276.	-3984.	4382.	5677.

RUN 10 POINT 20
SWEEP/TAPERED TIP

V/OR = 0.201 ALFS,U = -2.5 CLR/S = 0.06940 CP/S = 0.002772
MAT = 0.720 THEIA = 8.0 CXR/S = 0.00236 RHO = 0.002386

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	-102.4		-6837.7		363.2		-861.5	
1	368.5	-749.6	-425.8	1111.8	429.4	-1134.4	671.3	-1445.1
2	-300.1	160.2	720.7	-143.1	-903.3	131.8	-1465.4	112.2
3	-14.2	185.6	126.9	-471.3	-150.6	640.4	-237.7	1030.5
4	-191.3	-117.2	127.4	-61.1	-29.3	106.8	127.1	229.7
5	-15.8	92.1	10.5	-57.6	18.6	-27.6	64.0	-196.3
6	-26.8	47.2	-44.6	3.6	85.9	-60.9	122.5	-84.1
7	22.9	70.5	15.6	90.7	-15.6	-104.0	-5.1	-37.0
8	-46.5	126.2	-82.8	201.6	-16.4	-155.1	-122.2	50.2
9	14.2	26.2	0.5	43.8	-28.3	-42.3	-36.3	24.6
10	24.8	-2.8	64.1	-5.1	71.8	7.2	151.0	12.9

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	126.5		-3207.5		-605.7		3904.5	
1	31.0	183.9	-1732.7	4247.6	-1701.5	3784.5	-1699.1	3147.7
2	36.1	26.8	1979.8	-544.0	2466.8	-552.3	2726.5	-446.1
3	5.4	-20.3	-641.1	-902.2	-438.9	-1343.1	-347.2	-1570.7
4	-18.0	-27.6	-162.1	746.4	-279.1	609.6	-518.8	405.7
5	3.5	9.8	-1397.2	1431.1	-1317.1	1443.8	-1147.4	1570.6
6	-8.9	5.2	-370.1	335.0	-429.4	403.9	-374.6	342.3
7	-4.3	9.2	-57.6	156.4	-72.6	185.1	-104.2	3.7
8	0.5	8.4	-176.4	346.6	-47.4	288.2	112.2	-143.1
9	0.4	-2.3	131.0	121.2	203.2	158.2	226.1	16.7
10	-2.6	0.1	135.6	8.5	-116.2	-23.9	-204.8	-23.5

RUN 10 POINT 20
SWEPT/TAPERED TIP

V/OR = 0.201 ALFS,U = -2.5 CLR/S = 0.06940 CP/S = 0.002772
MAT = 0.720 THETA = 8.0 CXR/S = 0.00236 RHO = 0.002386

PSI	NORMAL BENDING MOMENT			PITCH LINK			EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD		.5R	.6R	.7R
0.00	-273.	-6325.	-175.	-1592.	171.		-5498.	-2338.	2573.
11.25	76.	-6285.	-289.	-1329.	226.		-1959.	925.	4670.
22.50	54.	-6824.	262.	-991.	255.		-124.	2288.	6302.
33.75	-92.	-7293.	874.	-538.	258.		-638.	1210.	5829.
45.00	-35.	-7126.	636.	-444.	282.		-2496.	-537.	3679.
56.25	41.	-6574.	182.	-569.	324.		-3790.	-1782.	1787.
67.50	-208.	-6289.	66.	-888.	341.		-3132.	-1416.	2452.
78.75	-615.	-6322.	-209.	-1738.	323.		-1024.	1109.	5557.
90.00	-519.	-6055.	-678.	-2275.	289.		1254.	3691.	7653.
101.25	-910.	-5574.	-711.	-1838.	249.		2423.	4094.	7134.
112.50	-990.	-5667.	-486.	-1553.	217.		1447.	3004.	6249.
123.75	-1084.	-6107.	-442.	-1895.	205.		-633.	1817.	5919.
135.00	-871.	-6049.	-476.	-1999.	213.		-1291.	1162.	5419.
146.25	-575.	-5745.	-595.	-2074.	221.		-51.	2004.	6110.
157.50	-623.	-5784.	-787.	-2558.	199.		1449.	3958.	8357.
168.75	-900.	-5883.	-749.	-2713.	146.		2165.	4846.	9448.
180.00	-1024.	-5781.	-682.	-2505.	100.		1897.	4316.	8717.
191.25	-865.	-5757.	-842.	-2564.	75.		553.	3505.	7849.
202.50	-533.	-6006.	-700.	-2465.	59.		-1621.	1898.	6656.
213.75	-138.	-6563.	-77.	-1947.	53.		-4004.	-585.	4906.
225.00	340.	-7273.	496.	-1359.	55.		-5689.	-2171.	3768.
236.25	844.	-7808.	1126.	-228.	20.		-6476.	-3099.	2427.
247.50	1058.	-8281.	2070.	1431.	-52.		-7862.	-5356.	-468.
258.75	923.	-8851.	2713.	2453.	-101.		-10422.	-8193.	-3429.
270.00	855.	-9012.	2804.	2945.	-116.		-11837.	-9398.	-4951.
281.25	921.	-8741.	2894.	3495.	-132.		-10808.	-8859.	-4927.
292.50	776.	-8766.	2869.	2972.	-129.		-8841.	-6986.	-2415.
303.75	609.	-8727.	2104.	1024.	-64.		-6372.	-3504.	2152.
315.00	736.	-7743.	828.	-641.	37.		-3412.	50.	5275.
326.25	658.	-6605.	-131.	-1384.	111.		-2779.	672.	5042.
337.50	18.	-6421.	-258.	-1861.	134.		-5565.	-1858.	3205.
348.75	-472.	-6568.	-67.	-1939.	139.		-7505.	-3851.	2000.

RUN 10 POINT 8 SWEPT/TAPERED TIP

V/OR = 0.201 ALFS,U = -5.0 CLR/S = 0.11115 CP/S = 0.006271
 MAT = 0.716 TETA = 13.0 CXR/S = 0.00859 RHO = 0.002390

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	LD	COS	SIN	LD	COS	SIN	LD	COS	SIN	LD
0	758.3			-7497.7			1102.2			-274.8		
1	572.0	-793.1		-413.4	1382.4		280.6	-1453.3		507.0	-1833.2	
2	-76.5	60.7		590.9	125.3		-800.2	-209.3		-1640.6	-562.0	
3	-533.4	309.5		705.8	-528.4		-784.1	736.0		-988.3	1247.4	
4	-157.0	-223.0		229.7	11.0		-144.8	85.2		-33.5	246.0	
5	-145.8	104.4		-32.5	-66.4		101.5	9.1		261.9	-164.8	
6	-154.7	-122.8		-141.2	-135.9		248.0	106.7		206.7	99.8	
7	19.7	57.0		59.5	28.0		5.8	-24.5		72.6	-67.9	
8	-170.6	33.4		-308.9	28.9		82.9	-94.0		-231.3	-73.8	
9	-18.8	3.6		-58.9	-16.4		53.7	-60.4		-82.4	-37.6	
10	14.9	33.8		36.2	74.0		89.4	121.2		179.7	169.1	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	.5R			.6R			.7R		
	COS	SIN	LD	COS	SIN	LD	COS	SIN	LD
0	44.1			-4306.7			-1613.2		
1	102.2	297.9		-1029.1	6015.8		-935.7	5406.8	
2	104.4	64.8		2506.4	-35.7		2905.7	101.4	
3	-10.9	-0.0		-977.8	-1372.8		413.5	-1942.4	
4	3.3	-35.3		-889.8	2837.8		-968.5	2404.5	
5	-22.9	6.0		-1420.6	-187.2		-1328.2	-35.8	
6	-17.6	11.4		-720.7	-448.4		-848.6	-467.2	
7	2.9	6.9		-236.4	387.3		-367.7	331.5	
8	-5.3	1.5		-437.8	167.4		-43.3	246.6	
9	4.2	2.4		-151.3	35.1		-190.9	194.8	
10	-0.4	-1.2		108.5	213.8		-208.8	-139.0	

RUN 10 POINT 8 SWEPT/TAPERED TIP

V/OR = 0.201 ALFS,U = -5.0 CLR/S = 0.11115 CP/S = 0.006271
 MAT = 0.716 THETA = 13.0 CXR/S = 0.00859 RHO = 0.002390

	NORMAL BENDING MOMENT			PITCH LINK			EDGEWISE BENDING MOMENT		
	.3K	.5R	.6R	.7R	LOAD		.5R	.6R	.7R
PSI									
0.00	112.	-6751.	235.	-2023.	204.		-7555.	-4013.	1838.
11.25	534.	-6728.	138.	-1724.	295.		-2953.	-4.	4774.
22.50	1158.	-6875.	153.	-1391.	365.		1253.	3772.	7328.
33.75	1434.	-7359.	926.	-746.	394.		2328.	3912.	7693.
45.00	1394.	-7857.	1319.	-376.	392.		633.	2295.	6491.
56.25	1156.	-7639.	1007.	-215.	380.		-1993.	164.	3736.
67.50	777.	-7007.	888.	-86.	359.		-3580.	-2048.	1448.
78.75	109.	-6710.	449.	-1052.	319.		-3238.	-1294.	3021.
90.00	-409.	-6313.	-713.	-2501.	255.		-679.	2703.	6381.
101.25	-519.	-5366.	-1123.	-2346.	182.		3081.	5410.	7398.
112.50	-687.	-5152.	-431.	-1406.	121.		+392.	5061.	7119.
123.75	-1055.	-6318.	66.	-1337.	86.		1493.	3461.	6706.
135.00	-811.	-6977.	263.	-1121.	85.		-2009.	1086.	4461.
146.25	233.	-6594.	552.	-540.	119.		-3016.	-1054.	2355.
157.50	982.	-6596.	569.	-988.	145.		-2589.	-720.	3855.
168.75	813.	-7160.	604.	-1694.	122.		-1583.	1212.	6999.
180.00	325.	-7292.	926.	-1565.	53.		75.	2459.	8623.
191.25	120.	-6970.	698.	-1616.	-6.		965.	3139.	8931.
202.50	201.	-6687.	131.	-1963.	-62.		108.	3181.	8434.
213.75	365.	-6812.	325.	-1810.	-145.		-2440.	1196.	7095.
225.00	530.	-7545.	951.	-1554.	7.		-7089.	-2812.	4588.
236.25	843.	-8232.	1439.	-721.	-238.		-12377.	-7683.	-447.
247.50	1307.	-8425.	2272.	1481.	-245.		-15231.	-11826.	-6424.
258.75	1550.	-8570.	3237.	3333.	-285.		-15439.	-13117.	-8751.
270.00	1655.	-9913.	3719.	3930.	-344.		-14378.	-11650.	-7601.
281.25	1957.	-10130.	4152.	4894.	-389.		-12140.	-9949.	-6697.
292.50	2150.	-9957.	4565.	5571.	-383.		-9878.	-8675.	-5299.
303.75	1969.	-10196.	4118.	3880.	-284.		-8733.	-6468.	-1335.
315.00	1866.	-9766.	2787.	1162.	-119.		-6953.	-3321.	2842.
326.25	1570.	-8090.	1205.	-519.	22.		-4680.	-955.	4399.
337.50	1541.	-6771.	7.	-1565.	92.		-5427.	-1304.	3392.
348.75	574.	-6648.	-155.	-2181.	134.		-8179.	-3780.	1599.

RUN 10 POINT 16 SWEPT/TAPERED TIP

V/OR = 0.200 ALFS,U = 0.0 CLR/S = 0.11912 CP/S = 0.004469
 MAT = 0.712 TETA = 12.0 CXR/S = -0.00141 RHO = 0.002386

BLADE NORMAL BENDING MOMENT

HARMONIC	.3K		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	464.0		-7025.5		673.5		-707.2	
1	457.7	-768.3	-229.4	1186.7	245.4	-1230.5	496.7	-1604.2
2	-290.9	110.2	886.5	-41.5	-1106.2	-75.8	-1984.6	-369.1
3	-337.3	271.5	551.2	-515.2	-608.4	708.7	-879.7	1089.5
4	-202.2	-125.6	172.5	-35.9	-129.8	13.4	-86.0	144.4
5	-50.6	147.1	-33.2	-77.1	37.9	-37.4	75.7	-284.7
6	-101.5	103.9	-140.1	78.2	155.6	-89.2	134.4	-22.9
7	75.5	206.6	78.4	297.8	-46.1	-252.8	38.8	-17.5
8	-52.8	193.6	-131.6	285.4	10.9	-215.0	-140.6	-4.1
9	28.6	68.5	-6.7	115.4	2.8	-27.2	-47.0	93.7
10	36.3	56.8	95.0	63.8	183.9	-10.8	230.0	62.4

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	72.1		-3033.7		-853.4		4048.1	
1	84.8	274.3	-773.7	5088.7	-994.6	4414.9	-1298.1	3619.1
2	103.7	70.9	3450.1	-483.6	3816.6	-251.2	4440.0	196.8
3	8.4	13.6	-898.0	-1082.6	-513.4	-1668.1	-325.7	-1942.5
4	-11.2	-30.6	-1037.4	2433.8	-997.9	2313.7	-964.0	1839.1
5	-18.2	-0.9	-2572.4	-195.6	-2241.0	23.9	-1904.3	499.0
6	-27.6	1.8	-555.7	264.2	-515.7	190.7	-291.8	-93.0
7	-7.3	24.6	-227.8	1020.0	-329.1	941.0	-496.1	377.8
8	-9.7	16.4	-66.0	484.8	154.4	313.5	424.9	-130.5
9	-2.9	-6.6	60.6	219.6	45.5	-16.3	181.3	-248.3
10	5.9	-17.5	105.9	243.0	-574.2	38.2	-572.0	-90.6

RUN 10 POINT 16 SWEPT/TAPERED TIP

V/OR = 0.200 ALFS,U = 0.0 CLR/S = 0.11912 CP/S = 0.004469
 MAT = 0.718 THETA = 12.0 CXR/S = -0.00141 RHO = 0.002386

	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	27.	-5783.	-580.	-2869.	158.	-5548.	-3007.	3242.
11.25	835.	-5281.	-1184.	-2730.	312.	110.	2194.	6086.
22.50	701.	-6368.	-373.	-2216.	430.	3050.	5249.	9337.
33.75	487.	-7512.	1111.	-1046.	424.	3138.	3997.	9176.
45.00	755.	-7463.	1180.	-216.	367.	1627.	2187.	6462.
56.25	953.	-6898.	602.	-13.	392.	-1499.	-162.	2987.
67.50	575.	-6700.	668.	-188.	377.	-4335.	-3139.	811.
78.75	-31.	-6771.	402.	-1188.	254.	-4591.	-2795.	2318.
90.00	-466.	-6384.	-430.	-2181.	198.	-1962.	730.	5367.
101.25	-586.	-5557.	-697.	-1912.	216.	2269.	3983.	6829.
112.50	-707.	-5423.	-502.	-1409.	164.	4744.	5364.	7884.
123.75	-926.	-6127.	-285.	-1537.	110.	2837.	4718.	8018.
135.00	-674.	-6396.	82.	-1476.	144.	-941.	907.	5191.
146.25	37.	-6079.	100.	-1472.	179.	-2483.	-1367.	3354.
157.50	304.	-6149.	-221.	-2064.	168.	-1325.	753.	5992.
168.75	-49.	-6495.	-23.	-2316.	139.	1113.	3505.	9403.
180.00	-321.	-6504.	156.	-2238.	68.	3274.	5058.	1092.
191.25	-250.	-6317.	-372.	-2590.	-3.	3203.	5912.	11216.
202.50	-24.	-6212.	-538.	-2592.	-23.	744.	4167.	9364.
213.75	269.	-6477.	11.	-2089.	-56.	-2685.	533.	6530.
225.00	558.	-7308.	453.	-1875.	-117.	-6761.	-2357.	4810.
236.25	880.	-8073.	1210.	-863.	-154.	-10718.	-6238.	1234.
247.50	1260.	-8372.	2457.	1446.	-202.	-12637.	-10588.	-4469.
258.75	1494.	-8784.	2995.	2937.	-256.	-12656.	-11085.	-6532.
270.00	1596.	-9269.	3072.	3554.	-259.	-12313.	-9569.	-5502.
281.25	1694.	-9419.	3758.	4522.	-289.	-11828.	-10227.	-5987.
292.50	1578.	-9716.	4117.	4529.	-367.	-10673.	-9557.	-4735.
303.75	1457.	-9717.	3122.	2512.	-310.	-7546.	-4549.	919.
315.00	1775.	-8152.	1541.	520.	-100.	-2174.	498.	5284.
326.25	1693.	-6296.	252.	-663.	56.	555.	1886.	5620.
337.50	447.	-6211.	-308.	-2037.	107.	-3309.	-312.	4802.
348.75	-537.	-6605.	-226.	-2947.	141.	-7757.	-3659.	3597.

RUN 11 POINT 8 SWEPT/TAPERED TIP

V/OR = 0.200 ALFS,U = -7.5 CLR/S = 0.12642 CP/S = 0.010102
 MAT = 0.719 THETA = 16.0 CXR/S = 0.01667 RHD = 0.002293

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	1201.0		-7919.0		1548.9		295.9	
1	543.3	-647.9	-239.6	1370.4	-128.3	-1495.1	-162.4	-1907.4
2	147.6	-3.7	287.6	44.3	-394.3	-108.1	-1204.1	-655.3
3	-557.9	109.4	671.0	-154.5	-743.3	350.7	-821.8	846.7
4	10.0	-444.1	109.2	164.0	-66.1	37.6	-38.2	281.0
5	-100.1	-36.5	-76.3	-14.5	149.8	80.4	317.9	102.5
6	41.0	-340.8	-10.5	-123.5	55.6	224.0	2.5	294.5
7	104.1	30.7	126.4	86.5	-111.2	-57.0	11.8	-35.0
8	-69.8	-120.3	-106.2	-218.5	45.5	68.8	-71.6	-153.1
9	8.0	15.1	16.4	-26.6	20.0	-53.2	-0.7	-81.0
10	35.6	-5.0	-3.5	75.8	-75.3	116.3	-77.8	177.9

BLADE EDGEWISE BENDING MOMENT

HARMONIC	.5K		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN
0	11.6		-3972.1		2378.0	
1	85.5	399.0	19.8	5900.8	661.3	5316.1
2	103.2	151.9	1389.7	-109.0	1674.3	-185.0
3	-60.8	7.0	-755.6	-1525.0	-154.3	-1864.6
4	-22.0	-47.0	556.8	1044.7	346.8	563.8
5	-50.1	-12.0	1927.2	1592.8	1639.8	1311.6
6	-61.0	95.4	-501.5	-186.5	-587.6	-535.0
7	0.5	46.5	0.7	281.9	-10.9	295.0
8	11.2	4.4	-472.4	-213.3	-329.7	-18.3
9	-3.6	-10.7	41.8	148.1	-91.9	193.2
10	-28.5	15.8	50.2	125.3	59.6	-242.2

RUN 11 POINT 8
SWEPT/TAPERED TIP

V/OR = 0.200 ALFS,U = -7.5 CLR/S = 0.12642 CP/S = 0.010102
MAT = 0.715 THETA = 16.0 CXR/S = 0.01667 RHO = 0.002293

	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1321.	-7115.	301.	-1749.	-50.	-1715.	5615.	6049.
11.25	617.	-7171.	732.	-1215.	306.	425.	6520.	6821.
22.50	829.	-7210.	724.	-963.	520.	-126.	6051.	6239.
33.75	1728.	-7260.	636.	-1013.	526.	-2417.	3844.	4116.
45.00	2321.	-7597.	846.	-1115.	5	-3710.	2595.	3559.
56.25	2236.	-7937.	943.	-1118.	553.	-2057.	4523.	5475.
67.50	1666.	-7674.	991.	-593.	506.	1876.	7437.	7048.
78.75	820.	-7128.	944.	-288.	447.	4648.	9063.	7696.
90.00	114.	-6752.	181.	-1232.	310.	4059.	9609.	8135.
101.25	-184.	-6109.	-694.	-2002.	123.	1763.	8404.	6508.
112.50	-449.	-5476.	-554.	-1242.	69.	-380.	5341.	3061.
123.75	-872.	-5990.	163.	-338.	92.	-2186.	3292.	1525.
135.00	-823.	-7148.	748.	-70.	60.	-2546.	3690.	2522.
146.25	159.	-7464.	1253.	363.	61.	-760.	4904.	3856.
157.50	1464.	-7240.	1402.	431.	93.	474.	5561.	4943.
168.75	1983.	-7574.	1368.	-271.	6.	-1337.	4443.	5243.
180.00	1422.	-8170.	1927.	-438.	.	-4183.	1527.	4356.
191.25	730.	-8246.	2381.	-28.	116.	-4582.	485.	4308.
202.50	757.	-7880.	1827.	-98.	-13.	-2775.	2888.	5749.
213.75	1081.	-7713.	1457.	-200.	-212.	-2482.	4041.	6162.
225.00	1128.	-8185.	2044.	96.	-306.	-5887.	1024.	4264.
236.25	1254.	-8839.	2416.	478.	-367.	-10816.	3372.	309.
247.50	1655.	-8525.	2469.	1600.	-357.	-14163.	-6897.	-5020.
258.75	1823.	-8931.	3045.	3349.	-241.	-15198.	-8730.	-8265.
270.00	1732.	-9627.	3704.	4163.	-336.	-13711.	-7172.	-6733.
281.25	1836.	-10251.	3971.	4343.	-676.	-9818.	-3394.	-3616.
292.50	2010.	-10028.	4167.	4897.	-762.	-6539.	-1194.	-2292.
303.75	1934.	-9685.	3948.	4410.	-448.	-6570.	-978.	-1154.
315.00	1634.	-9607.	3004.	2138.	-115.	-7862.	-503.	1237.
326.25	1997.	-9383.	1940.	1.	13.	-7638.	808.	3477.
337.50	2235.	-8068.	1001.	-1092.	-53.	-6365.	2475.	4733.
348.75	2074.	-7324.	271.	-1738.	-172.	-4529.	4196.	5391.

RUN 14 POINT 12 SWEPT/TAPERED TIP

V/OR = 0.301 ALFS,U = -5.0 CLR/S = 0.07069 CP/S = 0.004093
 MAT = 0.780 TETA = 10.0 CXR/S = 0.00546 RHO = 0.002257

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	99.5		-6897.3		483.0		-655.5	
1	782.0	-964.4	-1143.7	1404.2	1275.8	-1505.3	1566.2	-2021.2
2	-338.9	558.2	727.3	-377.6	-935.0	332.6	-1356.6	436.4
3	155.7	261.1	-103.1	-623.5	9.8	744.0	-226.3	881.5
4	-57.4	177.5	50.9	16.1	-118.2	-4.7	-108.5	17.9
5	229.3	80.0	5.9	-17.1	-162.1	-67.4	-413.0	-137.9
6	-53.6	8.6	-32.2	-20.0	-11.1	21.5	23.7	-35.0
7	-126.7	-100.3	-97.5	-194.2	69.1	146.9	-17.7	-25.6
8	57.7	-35.9	105.5	-76.6	-81.9	66.9	7.8	-41.7
9	-21.5	-27.3	-22.0	-64.4	-9.3	36.0	-23.6	-33.7
10	-12.3	11.7	-20.2	-18.6	-46.5	-24.8	-54.6	-64.4

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	146.0		-3294.7		5251.3		3685.0	
1	79.8	219.8	-3185.8	5077.3	-3860.9	4675.8	-3124.7	3788.5
2	34.1	27.6	2228.7	-776.8	2658.2	-718.5	2317.1	-682.1
3	-18.6	25.1	-1237.8	-478.7	-820.8	-896.7	-270.0	-581.8
4	-15.4	22.8	202.4	1459.2	422.1	1261.1	319.8	949.0
5	-11.3	30.2	163.2	-414.3	442.2	-189.8	657.4	-142.1
6	-7.1	-4.6	-128.4	-496.4	-0.8	-447.1	-90.1	-260.6
7	-0.8	-13.4	-365.7	-139.0	-278.1	-121.2	-66.1	246.3
8	3.8	-7.6	320.2	-118.6	319.5	-163.9	137.5	-11.9
9	1.2	-0.8	-97.9	-126.0	-84.2	-110.3	-102.0	2.5
10	1.7	-6.1	-86.2	48.0	6.9	169.2	-33.4	217.8

RUN 14 POINT 12
SWEEP/TAPERED TIP

V/OR = 0.301 ALFS,U = -5.0 CLR/S = 0.07069 CP/S = 0.004093
MAT = 0.780 THETA = 10.0 CXR/S = 0.00546 RHO = 0.002297

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	754.	-7426.	473.	-1259.	213.	-5482.	4055.	3431.
11.25	586.	-7559.	1165.	-868.	297.	-4902.	3567.	4014.
22.50	1184.	-7756.	1488.	219.	415.	-3300.	4190.	3189.
33.75	1007.	-7404.	1316.	837.	478.	-1869.	4573.	2557.
45.00	421.	-7387.	1289.	693.	430.	-1676.	5142.	2892.
56.25	-124.	-7322.	1130.	9.	350.	-2386.	4671.	3224.
67.50	-253.	-6707.	217.	-1117.	319.	-2463.	5405.	3780.
78.75	-225.	-5794.	-826.	-2104.	332.	-1156.	7369.	4956.
90.00	-568.	-5275.	-1152.	-2418.	343.	368.	8722.	5933.
101.25	-1187.	-5390.	-1011.	-2476.	311.	1165.	9367.	6772.
112.50	-1456.	-5556.	-941.	-2625.	250.	1819.	10159.	7868.
123.75	-1214.	-5286.	-1093.	-2798.	221.	2501.	10727.	8444.
135.00	-956.	-4386.	-1388.	-3192.	222.	2430.	10784.	8504.
146.25	-1226.	-5123.	-1509.	-3651.	207.	1759.	10729.	8839.
157.50	-1650.	-5316.	-1416.	-3589.	187.	1752.	10987.	9106.
168.75	-1730.	-5070.	-1580.	-3199.	166.	2925.	12057.	9130.
180.00	-1364.	-4706.	-1893.	-3029.	113.	3966.	13259.	9241.
191.25	-884.	-4980.	-1691.	-2952.	48.	3088.	12431.	8754.
202.50	-342.	-5011.	-1073.	-2727.	13.	576.	13059.	1014.
213.75	432.	-6376.	-489.	-2187.	-15.	-2014.	7978.	6378.
225.00	1131.	-7050.	322.	-948.	-47.	-5143.	4951.	3706.
236.25	1271.	-7568.	1542.	790.	-67.	-9667.	-40.	-778.
247.50	1151.	-8570.	2698.	2288.	-96.	-13009.	-3702.	-3676.
258.75	1287.	-9494.	3447.	3294.	-134.	-12483.	-3655.	-3291.
270.00	1577.	-9556.	3704.	3680.	-132.	-9941.	-2065.	-2036.
281.25	1676.	-9437.	3389.	3250.	-81.	-8304.	-654.	-1268.
292.50	1496.	-8984.	2766.	2550.	-17.	-7717.	364.	-686.
303.75	586.	-8316.	2250.	2049.	38.	-7767.	356.	-811.
315.00	303.	-7547.	1854.	1298.	56.	-8319.	-282.	-1092.
326.25	-19.	-7673.	1384.	318.	42.	-9060.	229.	-181.
337.50	237.	-7083.	779.	-308.	67.	-6576.	1993.	1184.
348.75	547.	-6827.	303.	-805.	142.	-5546.	3516.	2213.

RUN 14 POINT 20
SWEPT/TAPERED TIP

V/R = 0.301 ALFS,U = -10.0 CLR/S = 0.06831 CP/S = 0.006030
MAT = 0.780 THETA = 12.0 CXR/S = 0.01157 RHO = 0.002284

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	351.7		-7248.5		886.5		-113.5	
1	849.5	-826.7	-1053.9	1270.1	1152.1	-1353.2	1426.8	-1816.7
2	-162.2	402.3	590.7	-220.0	-809.1	130.4	-1303.5	133.5
3	60.0	497.0	44.6	-684.2	-117.6	820.6	-324.1	951.4
4	4.8	189.9	75.0	2.1	-164.0	-23.5	-223.0	-8.7
5	83.4	96.1	-0.3	-40.8	-55.2	-74.7	-157.2	-221.7
6	-23.6	-6.1	21.1	-3.9	-21.0	13.3	42.8	1.7
7	-51.1	-22.5	-18.3	-73.9	20.4	34.9	6.8	-37.4
8	-10.8	2.0	7.5	1.4	-3.5	3.4	9.1	-6.8
9	-3.5	2.6	4.5	-18.1	-26.8	-7.1	-13.4	-30.6
10	9.1	-4.2	12.3	-12.9	-40.7	-30.0	-19.9	-49.9

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK LOAD		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	106.8		-3752.5		4452.5		2985.3	
1	121.8	224.8	-2088.6	5026.6	-2940.0	4587.4	-2477.4	3677.4
2	53.8	18.5	1743.1	-769.5	2220.9	-532.2	2184.6	-386.9
3	-24.0	42.0	-1334.8	-655.7	-918.5	-1108.7	-484.2	-729.8
4	-2.6	15.1	1078.9	2006.1	1188.0	1858.8	1004.6	1411.3
5	-27.4	13.7	676.5	-1147.1	751.0	-788.5	730.2	-479.1
6	5.4	1.2	-69.1	-360.3	-72.5	-368.1	-190.5	-282.2
7	1.5	-13.3	-119.0	54.9	-99.5	118.9	-37.3	226.6
8	-0.2	-0.7	21.1	37.8	28.8	-8.9	4.8	12.8
9	-0.7	-5.1	12.3	-10.5	57.1	40.8	27.5	64.7
10	-1.4	-2.5	87.5	24.2	178.0	148.3	154.9	133.3

RUN 14 POINT 20
SWEEP/TAPERED TIP

V/OR = 0.301 ALFS,U = -10.0 CLR/S = 0.06831 CP/S = 0.006030
 MAT = 0.780 THETA = 12.0 CXK/S = 0.01157 RHO = 0.002284

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT	
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R
0.00	1107.	-1565.	821.	-669.	233.	-3745.	4846.
11.25	1565.	-8001.	1220.	-488.	318.	-3650.	4667.
22.50	1779.	-8158.	1695.	298.	420.	-3682.	3753.
33.75	1527.	-8045.	1806.	960.	468.	-3083.	3869.
45.00	918.	-7849.	1713.	1095.	432.	-2427.	4249.
56.25	318.	-7453.	1385.	693.	360.	-1917.	4544.
67.50	-86.	-6842.	569.	-306.	254.	-1321.	5758.
78.75	-393.	-6245.	-300.	-1446.	258.	-747.	7291.
90.00	-690.	-5821.	-701.	-2030.	251.	56.	8172.
101.25	-906.	-5624.	-792.	-2101.	241.	1325.	9286.
112.50	-1008.	-5060.	-726.	-1991.	207.	2124.	10131.
123.75	-949.	-5763.	-477.	-1782.	172.	1666.	9439.
135.00	-812.	-5818.	-326.	-1758.	156.	517.	8262.
146.25	-767.	-5912.	-426.	-2110.	146.	-546.	7868.
157.50	-819.	-5576.	-597.	-2467.	133.	-860.	8151.
168.75	-833.	-5805.	-844.	-2568.	117.	224.	9390.
180.00	-769.	-5518.	-1125.	-2547.	91.	1563.	11145.
191.25	-622.	-5485.	-1116.	-2427.	28.	2514.	11628.
202.50	-317.	-5860.	-773.	-2175.	-75.	954.	10320.
213.75	121.	-6512.	-242.	-1700.	-164.	-2727.	7350.
225.00	563.	-7241.	555.	-694.	-184.	-7964.	2306.
236.25	929.	-7580.	1570.	791.	-158.	-12663.	-2944.
247.50	1207.	-8761.	2561.	2216.	-150.	-14309.	-5142.
258.75	1444.	-9449.	3417.	3303.	-160.	-12456.	-4042.
270.00	1725.	-9759.	3880.	3936.	-158.	-8884.	-1487.
281.25	1925.	-9660.	3717.	3680.	-128.	-6283.	812.
292.50	1755.	-9337.	3270.	3342.	-64.	-6466.	925.
303.75	1222.	-6882.	2844.	2702.	4.	-8394.	-914.
315.00	676.	-8356.	2246.	1832.	33.	-9368.	-1644.
326.25	384.	-7862.	1561.	801.	42.	-8458.	-311.
337.50	389.	-7454.	1121.	101.	90.	-6628.	1454.
348.75	657.	-7294.	863.	-322.	166.	-4805.	3309.
							2218.

RUN 14 POINT 9 SWEPT/TAPERED TIP

V/OR = 0.306 ALFS,U = 0.0 CLR/S = 0.10800 CP/S = 0.004180
 MAT = 0.782 THETA = 12.0 CXR/S = 0.00017 RHO = 0.002306

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	304.2		-6836.0		462.7		1815.7		-931.8			
1	1051.4	-1150.9	-1485.7	1637.2	1573.0	-1763.0	1815.7	-2305.2				
2	-421.0	640.7	1035.0	-258.0	-1429.5	211.6	-2175.6	340.2				
3	221.1	412.3	-130.1	-843.5	46.9	993.5	-199.2	1169.6				
4	108.6	-44.4	43.1	57.5	-207.8	121.1	-316.0	326.6				
5	196.8	-26.7	-113.8	-21.8	-92.2	-11.5	-479.2	19.1				
6	43.6	-14.0	-7.1	-22.5	-31.6	100.8	17.2	68.9				
7	-54.1	-202.4	-60.5	-287.4	-16.4	280.6	-14.7	20.5				
8	179.6	-112.6	289.0	-178.3	-199.1	195.3	85.9	-61.4				
9	25.9	-100.4	82.3	-181.3	-39.1	177.3	71.5	-67.7				
10	2.5	3.6	13.8	-76.8	-138.8	-44.2	-83.9	-173.0				

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			LOAD			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS
0	58.8		-2981.8		5418.1		4400.2								
1	102.6	313.8	-5328.3	6422.1	-5769.9	5698.5	-4333.2	4361.2							
2	103.7	65.3	4258.8	-916.9	4817.7	-760.5	4343.4	-842.5							
3	-6.4	26.2	-2538.7	-641.6	-1877.6	-1216.0	-939.8	-781.9							
4	-33.6	-2.4	594.2	3276.1	1033.3	2395.7	1032.3	1403.1							
5	-25.2	35.2	-1502.7	-126.8	-1007.2	-50.4	-330.8	-139.6							
6	-27.1	-4.0	-269.8	-292.1	-25.2	-478.9	-151.6	-271.2							
7	-21.2	-5.1	-317.0	-148.3	-26.2	-336.4	29.4	168.9							
8	4.4	7.6	545.0	-380.1	444.0	-561.7	-143.2	-157.1							
9	9.0	4.6	-41.9	-496.0	-142.7	-629.4	-412.9	-193.6							
10	12.6	-18.8	46.7	-153.5	292.7	47.9	132.8	219.1							

RUN 14 POINT 9
SNEPT/TAPERED TIP

V/OR = 0.300 ALFS,U = 0.0 CLR/S = 0.10800 CP/S = 0.004180
MAT = 0.782 THETA = 12.0 CXR/S = 0.00017 RHO = 0.002306

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1658.	-7120.	-72.	-2210.	217.	-7536.	3157.	3627.
11.25	1133.	-8423.	1633.	-1421.	34.	-5641.	2611.	4646.
22.50	1111.	-8062.	1975.	211.	515.	-935.	5292.	5163.
33.75	1433.	-6965.	1016.	988.	594.	1682.	7801.	4294.
45.00	1059.	-7113.	1034.	493.	496.	-1042.	5434.	2809.
56.25	284.	-7601.	1362.	-415.	385.	-4709.	2307.	2252.
67.50	41.	-6905.	269.	-1530.	354.	-5115.	3132.	2881.
78.75	39.	-5638.	-1021.	-2382.	330.	-2795.	5724.	3843.
90.00	-521.	-5031.	-1216.	-2464.	313.	711.	8381.	5606.
101.25	-1385.	-5189.	-1090.	-2413.	270.	3820.	11436.	8319.
112.50	-1741.	-5378.	-983.	-2525.	183.	4819.	12422.	9470.
123.75	-1468.	-5085.	-863.	-2617.	166.	4022.	10821.	8432.
135.00	-1171.	-4764.	-1309.	-3311.	222.	2842.	10220.	8387.
146.25	-1353.	-4564.	-1865.	-4438.	218.	2258.	11381.	10194.
157.50	-1769.	-5090.	-1887.	-4730.	183.	3981.	13337.	12006.
168.75	-1746.	-4453.	-2266.	-4493.	175.	8462.	17239.	13975.
180.00	-1264.	-3704.	-3016.	-4598.	100.	11922.	20804.	15601.
191.25	-934.	-3856.	-2732.	-4425.	-14.	10492.	19231.	14351.
202.50	-730.	-4837.	-1685.	-3753.	-54.	5279.	14062.	11015.
213.75	-22.	-5862.	-961.	-2964.	-77.	-601.	9284.	7677.
225.00	1008.	-6691.	42.	-1357.	-121.	-6577.	3756.	2936.
236.25	1558.	-7839.	1717.	974.	-140.	-12686.	-2793.	-2577.
247.50	1839.	-9273.	3098.	2647.	-214.	-16322.	-6230.	-4654.
258.75	2229.	-10067.	3917.	3743.	-345.	-15353.	-5728.	-3802.
270.00	2455.	-10161.	4527.	4624.	-352.	-12468.	-4761.	-3676.
281.25	2134.	-10306.	4576.	4316.	-277.	-11172.	-4154.	-3455.
292.50	1681.	-9993.	3825.	3306.	-279.	-10167.	-2297.	-1861.
303.75	1292.	-8678.	2808.	2928.	-230.	-7924.	-134.	-1126.
315.00	604.	-7792.	2119.	2055.	-50.	-7348.	-95.	-1233.
326.25	55.	-7937.	1664.	-124.	60.	-5258.	-1168.	214.
337.50	565.	-7461.	684.	-1765.	64.	-9756.	76.	2329.
348.75	1579.	-6512.	-490.	-2168.	117.	-8306.	2831.	3165.

RUN 15 POINT 8
SHEPT/TAPERED TIP

V/UR = 0.300 ALFS,U = -7.5 CLR/S = 0.10231 CP/S = 0.008558
 MAT = 0.781 IPIETA = 15.0 CXR/S = 0.01407 BHO = 0.002298

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS
0	899.6			-7451.8			1192.4			-108.4		
1	1088.0	-827.4		-1231.8	1363.7		1472.0	-1474.8		1850.0	-2035.8	
2	-322.5	495.8		803.0	-41.9		-1158.6	-191.9		-1905.6	-339.2	
3	-207.6	549.1		462.7	-824.1		-580.8	1045.7		-881.0	1078.0	
4	-17.9	70.7		85.2	70.7		-295.4	-27.9		-459.8	184.1	
5	-1.2	55.3		11.4	-83.2		74.3	-48.9		15.2	-268.8	
6	-23.7	-17.2		30.0	-17.6		-69.8	52.1		83.5	81.1	
7	-19.1	-88.2		35.1	-141.9		-16.8	87.3		-33.2	-53.8	
8	21.7	-30.4		53.8	-52.7		-17.1	57.9		78.0	-35.3	
9	-3.1	7.7		13.4	-12.6		-15.0	-26.3		4.4	-15.9	
10	18.6	10.6		15.1	-12.2		-41.8	-55.7		-15.2	-83.5	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5R			.6R			.7R		
	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS
0	55.7			-4112.1			3985.7			2885.3		
1	141.0	321.5		-3851.2	6013.4		-4845.6	5143.5		-3810.3	3895.6	
2	83.1	80.7		2674.7	-262.6		3440.2	351.5		3299.5	356.8	
3	-33.3	52.3		-1614.1	-1278.6		-930.2	-1863.8		-488.4	-1026.0	
4	26.3	-11.2		-390.3	2990.0		173.5	2639.4		364.0	1603.6	
5	-34.4	-5.0		1194.8	-1401.7		860.8	-1429.2		745.3	-734.0	
6	8.9	-7.1		134.5	-253.7		280.9	-303.3		-83.4	-305.8	
7	8.6	-18.9		-126.6	1.3		-119.2	101.5		-42.4	347.6	
8	-1.4	-4.7		128.3	-1.9		140.6	-75.1		-23.4	61.2	
9	0.9	-4.2		-39.7	65.8		-82.1	121.3		-120.1	42.2	
10	-0.6	-3.8		48.4	50.5		86.8	231.5		28.6	241.1	

RUN 15 POINT 8 SWEEP/TAPERED TIP

V/OR = J.300 ALFS,U = -7.5 CLR/S = 0.10231 CP/S = J.008558
 MAT = J.781 THETA = 15.0 CXR/S = 0.01407 RHO = J.002258

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3P	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
J.00	1432.	-7174.	543.	-1372.	255.	-5948.	2991.	2759.
11.25	1810.	-7916.	1178.	-1201.	321.	-5499.	3247.	3670.
22.50	2244.	-8308.	1920.	-175.	436.	-4940.	2562.	2888.
33.75	2488.	-8219.	2142.	897.	537.	-3277.	3208.	2261.
45.00	2168.	-8160.	2198.	1365.	545.	-1432.	4553.	2740.
56.25	1453.	-8385.	2180.	1165.	477.	-901.	4834.	3092.
67.50	879.	-7555.	1460.	223.	385.	-1529.	4736.	3101.
78.75	508.	-6682.	268.	-1066.	311.	-2118.	5269.	3284.
90.00	46.	-5927.	-533.	-1998.	268.	-1677.	6190.	3863.
101.25	-504.	-5582.	-849.	-2413.	224.	227.	8068.	5371.
112.50	-873.	-5543.	-838.	-2256.	154.	2874.	10520.	7082.
123.75	-897.	-5589.	-424.	-1606.	91.	4450.	11298.	7382.
135.00	-682.	-5743.	45.	-1427.	68.	3580.	9859.	6920.
146.25	-504.	-6054.	118.	-2241.	80.	852.	7963.	7109.
157.50	-453.	-6363.	-182.	-3082.	106.	-1156.	7495.	7637.
168.75	-378.	-6158.	-748.	-3292.	119.	-208.	9638.	8550.
180.00	-282.	-5755.	-1324.	-3283.	89.	2915.	13224.	10183.
191.25	-259.	-5465.	-1450.	-3186.	5.	5379.	15194.	11170.
202.50	-134.	-5557.	-1157.	-2868.	-129.	5161.	14493.	10612.
213.75	249.	-6067.	-681.	-2398.	-266.	1395.	11380.	8581.
225.00	758.	-6875.	144.	-1514.	-320.	-5672.	5086.	4063.
236.25	1301.	-7787.	1261.	-47.	-284.	-13221.	-2561.	-2005.
247.50	1847.	-8727.	2377.	1560.	-244.	-17258.	-6929.	-5503.
258.75	2223.	-9677.	3631.	3131.	-256.	-16468.	-7003.	-5246.
270.00	2417.	-13395.	4833.	4692.	-290.	-12786.	-5206.	-3901.
281.25	2579.	-10614.	5208.	5445.	-303.	-9210.	-2510.	-2860.
292.50	2557.	-10332.	4801.	5289.	-278.	-8097.	-1637.	-2532.
303.75	2130.	-9762.	4258.	4636.	-227.	-9449.	-2668.	-3422.
315.00	1513.	-9150.	3496.	3294.	-180.	-10851.	-3726.	-3732.
326.25	1078.	-8493.	2357.	1328.	-110.	-10539.	-2550.	-1975.
337.50	956.	-7651.	1255.	-204.	27.	-8980.	-479.	-14.
348.75	1116.	-6598.	630.	-946.	174.	-7209.	1365.	1203.

RUN 19 POINT 25
SWEPT/TAPERED TIP

V/OR = 0.375 ALFS,U = -5.0 CLR/S = 0.07402 CP/S = 0.005656
MAT = 0.824 THEIA = 12.0 CXR/S = 0.00622 RHO = 0.002188

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	349.9		-6633.5		807.0		96.7		1758.0		-2316.0	
1	593.0	-1111.7	-1236.5	1337.1	1455.2	-1669.4						
2	-438.6	845.8	784.8	-803.4	-1049.3	949.8			-1632.6		1173.7	
3	150.7	521.0	-314.5	-752.1	300.5	1020.2			166.7		1320.2	
4	71.5	283.6	123.7	-59.1	-136.8	72.5			-126.7		-9.7	
5	109.0	253.0	-96.2	-9.7	-129.3	-127.1			-431.9		-267.7	
6	44.6	94.9	-24.4	30.9	2.6	-62.7			-117.6		-86.9	
7	-159.3	55.5	-191.8	111.5	153.1	-105.3			-29.6		-1.7	
8	40.6	-58.4	71.6	-104.6	-39.8	61.5			34.8		-28.8	
9	-8.2	17.1	5.3	6.5	47.5	7.7			39.0		7.2	
10	-2.1	5.5	-16.4	-16.3	10.9	7.7			2.6		-5.4	

BLADE EDGENWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5R			.6R			.7R		
	CCS	SIN	LOAC	COS	SIN	COS	COS	SIN	COS	SIN	COS	SIN
0	53.6			-3429.9		5229.6			-6435.7			
1	144.4	212.8		-3695.8	5558.9	-4425.6	5342.6		-3716.6		4353.4	
2	28.4	0.5		2570.1	-2453.9	2894.3	-2629.2		2674.8		-2182.6	
3	-37.8	63.0		-1856.7	114.0	-1527.1	-541.6		-922.7		-409.5	
4	-20.6	-24.1		2620.6	2059.1	2424.1	1836.9		1936.0		1547.0	
5	-20.1	19.3		-109.2	-708.8	318.1	-342.7		684.9		-190.7	
6	-14.1	-7.7		-20.5	-1046.6	-50.5	-957.6		77.8		-819.8	
7	-9.7	-9.9		-315.6	663.4	-258.8	646.0		158.5		364.8	
8	0.8	-16.7		90.6	-365.8	-3.8	-298.5		-158.4		-128.6	
9	6.7	-1.4		43.1	47.2	-44.1	19.3		2.5		42.7	
10	2.1	-1.7		-50.5	11.8	-6.2	49.2		35.4		80.2	

RUN 19 POINT 25
SWEPT/TAPERED TIP

V/OR = 0.375 ALFS,U = -5.0 CLR/S = 0.07402 CP/S = 0.005656
MAT = 0.824 T/FETA = 12.0 CXR/S = 0.00622 RHO = 0.002188

PSI	NORMAL BENDING MOMENT			PITCH LINK			EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD		.5R	.6R	.7R
G.00	1151.	-7526.	1422.	-241.	128.		-4214.	4550.	-5663.
11.25	2162.	-7880.	1829.	455.	191.		-4073.	4389.	-6271.
22.50	2348.	-7921.	2257.	1679.	339.		-4072.	3538.	-8062.
33.75	1656.	-7956.	2747.	2656.	453.		-4251.	2423.	-9359.
45.00	175.	-7906.	2685.	2442.	414.		-4652.	1885.	-9463.
56.25	223.	-7360.	1664.	1067.	309.		-4761.	2653.	-8688.
67.50	245.	-6341.	242.	-518.	269.		-3749.	4719.	-7265.
78.75	-7.	-5460.	-749.	-1600.	257.		-1601.	7271.	-5409.
90.00	-668.	-5208.	-1038.	-2143.	195.		902.	9727.	-3196.
101.25	-1254.	-5259.	-960.	-2315.	119.		3326.	12042.	-850.
112.50	-1322.	-4950.	-1023.	-2314.	94.		4838.	13281.	186.
123.75	-1243.	-4617.	-1306.	-2472.	103.		3752.	12166.	-983.
135.00	-1538.	-4773.	-1455.	-2943.	111.		886.	10107.	-2206.
146.25	-1894.	-5060.	-1468.	-3409.	121.		539.	10540.	-1000.
157.50	-1718.	-4626.	-1779.	-3536.	132.		4394.	14037.	1599.
168.75	-1216.	-3867.	-2274.	-3420.	90.		8202.	17030.	2838.
180.00	-1019.	-3860.	-2232.	-3245.	-27.		7775.	16425.	1923.
191.25	-1019.	-4649.	-1503.	-2893.	-157.		4081.	13122.	6.
202.50	-520.	-5510.	-677.	-2176.	-233.		-83.	9634.	-2136.
213.75	524.	-6241.	49.	-1028.	-258.		-4502.	5938.	-5303.
225.00	1375.	-7166.	1163.	585.	-251.		-10059.	474.	-10162.
236.25	1666.	-8318.	2749.	2528.	-216.		-15102.	-5277.	-14802.
247.50	1810.	-9188.	4053.	4352.	-180.		-16112.	-7241.	-16366.
258.75	2131.	-9371.	4514.	5521.	-169.		-12294.	-4389.	-14667.
270.00	2384.	-9157.	4370.	5647.	-160.		-7338.	-102.	-11696.
281.25	2281.	-8982.	3926.	4639.	-132.		-5281.	2223.	-9291.
292.50	1865.	-8637.	3121.	3020.	-86.		-6529.	1829.	-8910.
303.75	1256.	-7819.	2084.	1677.	-27.		-8844.	-74.	-10683.
315.00	663.	-6857.	1223.	949.	26.		-10015.	-1259.	-12289.
326.25	67.	-6356.	711.	471.	59.		-9094.	-243.	-11619.
337.50	-233.	-6429.	581.	-12.	87.		-6850.	2072.	-9266.
348.75	125.	-6901.	898.	-330.	112.		-4974.	3861.	-6890.

RUN 21 POI: 6

SWEPT/TAPERED TIE

V/OR = 0.377 ALFS,U = -10.0 CLR/S = 0.06698 CP/S = 0.007616
 M2I = 0.826 THEIA = 14.0 CXR/S = 0.01151 RHO = 0.002258

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	563.6		-6987.7		1135.6		499.4	
1	1065.8	-1007.0	-1239.6	1268.1	1453.8	-1591.3	1660.4	-2214.6
2	-385.4	691.2	675.4	-587.4	-924.1	667.8	-1466.9	813.0
3	77.7	712.3	-171.0	-808.0	142.4	1078.1	6.4	1360.1
4	103.1	188.5	113.5	-64.8	-201.7	145.7	-268.1	203.3
5	-60.5	202.2	-67.0	0.0	-11.9	-144.8	-137.4	-253.9
6	-25.3	55.7	-1.2	-19.4	24.4	-20.5	8.5	-98.2
7	-116.4	87.1	-109.7	51.5	86.5	-45.8	1.8	6.3
8	6.5	6.0	34.8	-9.3	-7.9	-4.2	18.1	-5.2
9	-13.3	9.1	0.3	8.7	26.0	20.3	38.1	22.3
10	-32.5	5.2	-29.8	4.5	32.1	34.5	-4.1	44.4

BLADE EDGEWISE BENDING MOMENT

PITCH LINK

HARMONIC	LOAD		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	98.3		-3930.9		3826.3		16429.0	
1	190.3	182.6	-2510.5	5287.2	-3572.4	5164.7	-2990.8	4403.1
2	35.2	14.9	1582.3	-2093.3	2073.9	-2111.1	2188.8	-1707.1
3	-56.9	70.4	-1937.3	-100.2	-1533.6	-724.0	-976.6	-512.4
4	4.7	-23.0	2745.9	2148.0	2649.3	1808.2	2196.1	1362.9
5	-40.3	15.9	957.5	-2715.0	1039.4	-2134.1	1061.3	-1662.0
6	4.5	-8.6	210.8	-337.4	86.5	-259.0	72.2	-133.3
7	-6.4	-12.1	-256.3	227.0	-201.8	174.6	-2.7	49.2
8	3.9	-0.8	68.1	-28.1	-20.1	-35.2	-70.9	-13.9
9	2.7	-0.0	49.5	51.6	35.9	-5.3	51.5	-0.7
10	5.7	0.9	-99.3	-20.2	-69.4	-118.1	-5.7	-111.2

RUN 21 POINT 6
SWEEP/TAPERED TIP

V/R = 0.377 ALFS,U = -10.0 CLR/S = 0.06698 CP/S = 0.007616
 MAT = 0.826 THETA = 14.0 CXR/S = 0.01151 RHC = 0.002258

PSI	NORMAL BENDING MOMENT			PITCH LINK			EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7K	LOAD		.5R	.6R	.7R
0.00	1183.	-7782.	1753.	356.	242.		-3120.	4364.	17952.
11.25	2261.	-8125.	2197.	1050.	306.		-4658.	2539.	16178.
22.50	2685.	-8349.	2557.	1839.	411.		-6262.	770.	14248.
33.75	2165.	-8418.	2374.	2601.	508.		-6204.	105.	13408.
45.00	1351.	-8120.	2854.	2623.	499.		-4150.	1379.	14228.
56.25	708.	-7456.	1862.	1433.	402.		-1903.	4058.	16325.
67.50	246.	-6706.	609.	-204.	318.		-974.	6143.	18079.
78.75	-99.	-5917.	-379.	-1425.	261.		-803.	7067.	18807.
90.00	-479.	-5451.	-952.	-2101.	202.		-314.	7939.	19502.
101.25	-894.	-5360.	-983.	-2154.	142.		1076.	9278.	20676.
112.50	-1085.	-5258.	-711.	-1721.	85.		3145.	10704.	21812.
123.75	-1105.	-5244.	-579.	-1531.	45.		3909.	11229.	22332.
135.00	-1230.	-5422.	-623.	-1870.	49.		1860.	9978.	21878.
146.25	-1295.	-5530.	-782.	-2309.	78.		-747.	8305.	21034.
157.50	-1056.	-5187.	-1198.	-2620.	103.		-677.	8641.	21144.
168.75	-771.	-4705.	-1637.	-2850.	113.		1824.	10805.	22370.
180.00	-723.	-4608.	-1640.	-2782.	63.		4274.	12729.	23667.
191.25	-775.	-5007.	-1188.	-2331.	-76.		4560.	12985.	24031.
202.50	-608.	-5691.	-496.	-1602.	-225.		1231.	10263.	22034.
213.75	-7.	-6401.	323.	-528.	-287.		-5403.	4116.	16864.
225.00	864.	-7139.	1251.	860.	-255.		-12620.	-3006.	10726.
236.25	1558.	-8105.	2400.	2337.	-177.		-17168.	-7691.	6973.
247.50	2003.	-9073.	3641.	3789.	-110.		-16808.	-8160.	6748.
258.75	2442.	-9535.	4415.	4591.	-91.		-11581.	-4419.	9394.
270.00	2711.	-9517.	4543.	5524.	-79.		-5308.	790.	13095.
281.25	2510.	-9358.	4347.	5228.	-34.		-2971.	2969.	14842.
292.50	1991.	-9011.	3807.	4222.	15.		-5518.	881.	13358.
303.75	1419.	-8355.	2823.	2810.	51.		-9604.	-2383.	10812.
315.00	883.	-7584.	1836.	1538.	58.		-11525.	-3724.	9816.
326.25	483.	-6955.	1204.	699.	139.		-9860.	-2115.	11262.
337.50	280.	-6865.	943.	147.	159.		-6128.	1529.	14577.
348.75	417.	-7253.	1176.	-31.	191.		-3360.	4371.	17557.

POINT 3
RED TIP

ALFS,U = J.0 CLR/S = 0.09654 CP/S = 0.004739
 MAT = 25 TAILA = 12.0 CX/S = 0.00045 RHO = 0.002294

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	184.2		-6366.9		400.7		-588.6		1975.5		-2795.7	
1	1387.9	-1432.0	-1554.7	1686.3	1737.1	-2061.4						
2	-707.6	1166.0	1269.1	-1146.6	-1586.6	1475.2	-2248.3	1909.6				
3	146.6	756.3	-391.1	-974.7	407.6	1366.8	273.6	1815.4				
4	195.9	351.5	130.5	-185.1	-227.5	180.5	-354.5	-48.7				
5	255.9	337.9	-161.6	37.1	-189.2	-175.9	-702.3	-214.1				
6	195.3	239.2	-69.4	28.4	-5.5	-238.6	-289.1	-329.7				
7	-34.4	358.7	-103.3	296.1	26.0	-319.4	-22.0	-71.3				
8	48.5	-50.8	-1.9	-67.7	-57.9	-4.5	-57.3	-34.7				
9	28.6	81.9	44.4	104.1	18.5	-85.3	46.3	-1.8				
10	-8.9	17.1	-6.7	23.4	118.6	-15.8	113.2	13.7				

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK		BLADE EDGEWISE BENDING MOMENT											
	LOAD		.5R				.6R				.7R			
	CGS	SIN	CGS	SIN	CGS	SIN	CGS	SIN	CGS	SIN	CGS	SIN		
0	111.4		-2544.0		5035.0		16550.5							
1	172.1	266.3	-4842.9	6770.8	-5277.5	6190.1	-4109.7	5060.4						
2	57.9	46.8	4904.8	-4825.8	4971.3	-5144.1	4249.2	-4359.7						
3	-14.7	44.3	-4285.6	575.0	-3556.7	-596.9	-2432.5	-519.3						
4	-4.1	-45.2	3120.7	3303.6	2888.4	2950.7	2499.3	2718.8						
5	-40.0	-40.5	-929.8	-3332.2	-24.8	-3176.7	709.4	-2617.1						
6	-78.6	-69.2	-972.2	-1555.8	-766.4	-1083.4	-259.4	-1023.1						
7	-72.3	-24.2	-229.6	1288.8	-183.2	1233.6	-128.1	536.8						
8	-52.4	8.4	-291.9	-215.0	-220.5	-177.1	-269.2	-109.5						
9	-4.9	9.9	-7.9	507.6	-248.7	394.9	-265.3	236.2						
10	8.5	8.0	115.7	313.9	21.3	344.7	171.7	308.6						

RUN 21 POINT 3
SWEPT/TAPERED TIP

V/OR = 0.376 ALFS, J = 0.0 CLR/S = 0.09654 CP/S = 0.004739
MAT = 0.825 THETA = 12.0 CXR/S = 0.00045 RHO = 0.002294

	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1692.	-7211.	642.	-1853.	123.	-5963.	2598.	16716.
11.25	3180.	-7473.	932.	-726.	257.	-5835.	2291.	15212.
22.50	2702.	-8024.	2336.	1621.	556.	-5359.	961.	13099.
33.75	1367.	-8379.	3705.	3621.	688.	-3391.	558.	12519.
45.00	682.	-8059.	3173.	3186.	579.	-1396.	2342.	13637.
56.25	682.	-7255.	1417.	870.	428.	-2426.	3325.	14430.
67.50	617.	-6206.	-115.	-1325.	312.	-4769.	2999.	14644.
78.75	-47.	-5284.	-1269.	-2740.	335.	-5064.	3594.	15211.
90.00	-1218.	-4924.	-1781.	-3332.	263.	-2285.	6248.	17281.
101.25	-2037.	-4748.	-1578.	-3189.	216.	3408.	10548.	21584.
112.50	-1581.	-4241.	-1717.	-3327.	181.	8637.	15304.	25169.
123.75	-1888.	-3954.	-2308.	-4171.	122.	8356.	15501.	25293.
135.00	-2491.	-4255.	-2435.	-4754.	120.	4333.	12727.	23625.
146.25	-2971.	-4142.	-2573.	-4782.	190.	3792.	12407.	23393.
157.50	-2527.	-3100.	-3379.	-4849.	209.	8586.	16041.	24982.
168.75	-1900.	-2357.	-3851.	-4988.	139.	13660.	20110.	27507.
180.00	-1877.	-2678.	-3359.	-4996.	43.	14629.	21260.	29168.
191.25	-1832.	-3958.	-2574.	-4676.	-50.	11641.	18963.	27915.
202.50	-957.	-4750.	-1691.	-3497.	-124.	6135.	14241.	24063.
213.75	324.	-5737.	-382.	-1504.	-171.	-3218.	6235.	17651.
225.00	1179.	-7241.	1364.	737.	-205.	-16437.	-5922.	7871.
236.25	1649.	-8782.	3348.	3201.	-221.	-25915.	-16067.	-485.
247.50	2248.	-9673.	4846.	5505.	-235.	-23965.	-15768.	-624.
258.75	2506.	-5547.	5188.	6539.	-263.	-14074.	-7143.	5620.
270.00	3118.	-9537.	4959.	6179.	-209.	-5242.	705.	11957.
281.25	2771.	-9713.	4672.	4956.	-83.	-2080.	3745.	15913.
292.50	2187.	-9149.	3628.	2883.	-138.	-5207.	2319.	15824.
303.75	1578.	-8019.	1760.	702.	-343.	-10545.	-1310.	11798.
315.00	777.	-6438.	179.	-335.	-242.	-10326.	-1443.	9995.
326.25	-376.	-5404.	-474.	-642.	222.	-4657.	3251.	13667.
337.50	-1203.	-5745.	-239.	-1262.	489.	-2076.	5947.	17402.
348.75	-469.	-6716.	399.	-1892.	316.	-4356.	4111.	17681.

RUN 21 POINT 7 SWEPT/TAPERED TIP

V/OR = 0.375 ALFS,U = -10.0 CLR/S = 0.08246 CP/S = 0.009637
 MAT = 0.628 PETA = 16.0 CXR/S = 0.01444 RHO = 0.002259

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS
0	502.0			-7172.8			1347.6			637.5		
1	1248.3	-949.6		-1389.1	1184.4		1632.3	-1524.1		1862.8	-2194.5	
2	-572.7	686.2		924.1	-434.5		-1224.0	457.1		-1885.6	470.2	
3	-182.2	880.1		58.1	-1013.1		-168.2	1340.8		-414.3	1636.9	
4	80.6	203.4		146.0	-31.5		-271.0	132.2		-351.4	223.6	
5	-187.0	130.0		-83.0	-14.4		69.8	-126.4		-19.4	-203.8	
6	-41.9	51.9		18.9	-13.5		38.2	6.4		69.8	-62.2	
7	-126.2	93.3		-119.4	83.6		89.4	-66.2		-3.9	44.6	
8	-11.8	18.3		23.2	15.4		31.2	-15.8		33.2	16.8	
9	-18.7	8.6		-8.1	17.0		42.3	31.1		52.7	44.8	
10	-25.8	3.0		-22.7	1.4		37.0	18.6		8.2	39.0	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5R			.6R			.7R		
	COS	SIN	LOAD	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS
0	74.0			-4027.5			3624.6			15500.3		
1	220.4	225.5		-3461.5	5523.6		-4531.7	5266.7		-3822.8	4568.0	
2	38.6	90.7		2301.9	-1848.4		2917.9	-1774.2		2966.1	-1349.6	
3	-55.7	77.5		-2783.0	-511.5		-2049.3	-1207.2		-1325.4	-770.5	
4	8.4	-30.5		2546.4	4210.2		2536.0	3613.0		2200.0	2614.0	
5	-38.1	12.7		1913.0	-3067.2		1826.4	-2424.6		1684.4	-1921.3	
6	21.1	-14.8		610.5	-93.0		423.5	-128.4		345.4	-48.3	
7	-1.8	-14.0		-456.8	286.3		-384.1	190.4		-139.0	-85.6	
8	5.6	-1.1		63.6	67.0		-89.3	19.0		-112.8	-59.7	
9	1.8	-2.2		4.1	17.8		-21.6	-73.6		-43.7	-79.8	
10	5.8	-1.0		-97.7	30.5		-112.3	10.8		-56.8	21.7	

RUN 21 POINT 7 SWIPT/TAPERED TIP

V/QR = 0.375 ALFS,U = -10.0 CLR/S = 0.08246 CP/S = 0.009637
 MAT = 0.828 THETA = 16.0 CXR/S = 0.01444 RHO = 0.002259

PSI	NORMAL BENDING MOMENT			PITCH LINK			EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD		.5R	.6R	.7R
0.00	1061.	-7625.	1625.	-10.	240.		-3367.	4140.	17196.
11.25	2365.	-8011.	2118.	864.	296.		-3734.	3356.	16108.
22.50	3180.	-8471.	2641.	1709.	412.		-5684.	1283.	14061.
33.75	2573.	-8840.	3360.	2644.	550.		-6634.	-392.	12547.
45.00	2287.	-8686.	3455.	3002.	550.		-4879.	429.	12870.
56.25	1594.	-8031.	2536.	2101.	519.		-2178.	3213.	14.61.
67.50	522.	-7203.	1249.	513.	410.		-1034.	5406.	16535.
78.75	324.	-6357.	157.	-920.	297.		-1424.	6084.	17261.
90.00	-169.	-5807.	-637.	-1908.	195.		-1533.	6627.	17756.
101.25	-560.	-5529.	-931.	-2153.	114.		334.	8549.	19234.
112.50	-757.	-5404.	-704.	-1680.	36.		3763.	11334.	21395.
123.75	-865.	-5437.	-321.	-1284.	-21.		5409.	12379.	22482.
135.00	-1070.	-5737.	-108.	-1458.	-20.		2904.	10366.	21601.
146.25	-1146.	-5925.	-275.	-1885.	21.		-1137.	7641.	19959.
157.50	-856.	-5550.	-843.	-2309.	72.		-2147.	7353.	19470.
168.75	-491.	-4879.	-1451.	-2724.	110.		1158.	10192.	21199.
180.00	-408.	-4542.	-1707.	-2566.	67.		6162.	14461.	24489.
191.25	-555.	-4757.	-1516.	-2856.	-57.		8633.	16854.	26570.
202.50	-602.	-5307.	-952.	-2309.	-282.		5664.	14351.	24572.
213.75	-213.	-5950.	-111.	-1260.	-347.		-2116.	7181.	18495.
225.00	607.	-6745.	774.	185.	-338.		-11592.	-1700.	10946.
236.25	1479.	-7870.	2089.	1832.	-255.		-19119.	-9054.	5029.
247.50	2235.	-9074.	3586.	3547.	-191.		-20887.	-11597.	3269.
258.75	2956.	-9823.	4656.	5102.	-173.		-15443.	-7772.	6120.
270.00	3400.	-10040.	5151.	6162.	-150.		-6932.	-943.	10910.
281.25	3251.	-10008.	5263.	6401.	-84.		-1965.	3208.	14032.
292.50	2672.	-9728.	4809.	5551.	-15.		-3267.	2339.	13680.
303.75	2005.	-9027.	3731.	4009.	28.		-8331.	-1700.	10452.
315.00	1415.	-8015.	2469.	2359.	54.		-12475.	-5098.	7333.
326.25	935.	-7127.	1370.	931.	70.		-12519.	-4619.	7832.
337.50	517.	-6831.	745.	-228.	105.		-9137.	-759.	11922.
348.75	382.	-7152.	951.	-602.	176.		-5375.	2873.	15923.

V/JR =	J.25J	ALFS,U =	-2.5	CLP/S =	0.06861	CP/S =	J.002674
MAT =	0.747	TPA =	8.0	CXR/S =	0.00198	RHO =	J.002303

HARMONIC	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	CCS	SIN	COS	SIN
0	-138.1		-6394.4		282.0		-986.7	
1	516.4	-917.5	-624.7	1221.0	828.6	-1403.0	1102.7	-1797.4
2	-255.3	426.6	612.9	-401.0	-904.9	391.5	-1378.1	519.7
3	227.0	102.9	-176.8	-408.0	164.2	629.3	10.3	949.8
4	-129.0	-32.0	85.8	-51.8	-28.4	82.3	160.4	274.9
5	64.7	52.4	48.8	-77.4	-83.3	-20.6	-72.4	-205.6
6	-20.0	19.5	-32.7	-49.3	33.9	13.4	30.1	-109.8
7	-79.4	63.3	-113.8	21.6	87.1	-83.1	-15.2	-65.5
8	-41.6	95.2	-97.0	109.5	23.2	-109.3	-98.7	-14.4
9	2.5	15.8	-25.8	40.0	-78.7	34.4	-136.8	75.0
10	-1.6	-10.1	23.9	8.6	-20.0	45.1	-226.5	60.0

PITCH LINK

HARMONIC	LOAD		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	CCS	SIN
0	175.2		-3148.4		6154.9		3886.1	
1	43.7	185.2	-2378.6	4760.5	-2830.4	4373.5	-2261.7	3199.0
2	33.7	19.0	1834.7	-1182.6	2470.8	-1086.6	2209.7	-899.4
3	2.2	-10.1	-1159.5	-357.8	-980.6	-920.1	-424.4	-924.6
4	-17.1	-11.6	31.6	899.0	-45.0	790.2	-327.8	337.3
5	2.5	6.6	-365.0	1043.3	-224.1	1184.4	-167.4	1187.0
6	-4.3	0.8	-101.3	184.9	-60.8	203.1	5.9	295.9
7	-4.9	6.3	-384.4	105.3	-374.5	189.4	-146.2	72.8
8	-8.2	6.0	-196.8	210.9	-104.1	230.4	73.0	38.7
9	-2.4	-2.6	-25.5	13.4	185.5	-86.8	197.0	-117.1
10	3.8	1.4	63.3	-8.0	122.4	-134.6	37.9	-145.5

RUN 12 POINT 13
SWEPT/TAPERED TIP

V/OR = 0.250 ALFS,U = -2.5 CLR/S = 0.06861 CP/S = 0.002674
 MAT = 0.747 THETA = 8.0 CXK/S = 0.00198 RMD = 0.002303

NORMAL BENDING MOMENT PITCH LINK EDGEWISE BENDING MOMENT

	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	145.	-6656.	304.	-1358.	224.	-5780.	4314.	3082.
11.25	487.	-6648.	546.	-723.	283.	-2746.	6375.	4078.
22.50	450.	-6755.	779.	-244.	327.	-1025.	7517.	4663.
33.75	48.	-6845.	933.	-120.	336.	-1828.	6642.	4000.
45.00	-156.	-6729.	842.	-195.	339.	-3336.	4757.	2436.
56.25	-159.	-6140.	240.	-692.	366.	-3252.	4946.	2287.
67.50	-363.	-5692.	-472.	-1572.	384.	-1709.	7118.	4003.
78.75	-750.	-5558.	-731.	-2267.	351.	-188.	9817.	5709.
90.00	-1047.	-5436.	-768.	-2416.	310.	909.	9675.	6499.
101.25	-1166.	-5236.	-917.	-2273.	305.	1626.	10389.	6690.
112.50	-1226.	-5193.	-987.	-2325.	295.	1528.	10382.	6621.
123.75	-1234.	-5248.	-945.	-2652.	263.	1026.	9903.	6780.
135.00	-1199.	-5142.	-1074.	-3006.	255.	1203.	10212.	7408.
146.25	-1212.	-4575.	-1373.	-3372.	262.	2031.	11308.	8264.
157.50	-1352.	-4933.	-1600.	-3670.	230.	2822.	12455.	9105.
168.75	-1433.	-4912.	-1630.	-3536.	178.	3278.	13152.	9397.
180.00	-1317.	-4911.	-1532.	-3135.	142.	2846.	12762.	8688.
191.25	-942.	-5163.	-1347.	-2901.	113.	965.	11170.	7433.
202.50	-352.	-5709.	-887.	-2517.	91.	-1760.	8929.	6054.
213.75	243.	-6401.	-108.	-1726.	84.	-4237.	6558.	4608.
225.00	889.	-7114.	672.	-918.	68.	-6169.	4546.	3456.
236.25	1264.	-7757.	1500.	134.	30.	-8006.	2481.	2022.
247.50	1210.	-8331.	2633.	1770.	-17.	-10111.	-647.	-763.
258.75	576.	-8728.	3395.	3010.	-58.	-11692.	-3279.	-3424.
270.00	584.	-8576.	3103.	3209.	-76.	-11230.	-2728.	-3743.
281.25	955.	-7993.	2562.	3124.	-57.	-8963.	-285.	-2475.
292.50	654.	-7741.	2459.	2633.	-26.	-6952.	1369.	-735.
303.75	284.	-7814.	1998.	932.	9.	-5944.	2958.	1882.
315.00	303.	-7328.	895.	-864.	74.	-5206.	4828.	3848.
326.25	431.	-6366.	172.	-1305.	149.	-5155.	4699.	3100.
337.50	247.	-6026.	144.	-1180.	182.	-6404.	2949.	1557.
348.75	-1.	-6426.	218.	-1420.	190.	-7289.	2646.	1827.

RUN 12 POINT 11
SWEPT/TAPERED TIP

V/DK = 0.250 ALFS,U = -5.0 CLR/S = 0.11434 CP/S = 0.007080
 MAT = 0.751 THETA = 14.0 CXR/S = 0.00936 RHO = 0.002307

BLADE NORMAL BENDING MOMENT

HARMONIC	.3P			.5R			.6R			.7R		
	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS
0	823.2		-7125.2			1104.0				-343.6		
1	726.5	-816.4	-621.4	1346.3		845.3	-1521.2		1269.0		-1955.1	
2	-130.8	373.9	603.1	-145.6		-1001.5	-130.0		-1921.7		-368.0	
3	-212.3	413.9	353.3	-596.2		-466.9	1040.4		-714.1		1415.4	
4	-159.1	-208.7	115.2	35.3		-106.8	20.2		-28.5		531.7	
5	15.7	-100.4	65.9	-56.2		15.7	84.1		211.4		-58.5	
6	-177.9	-138.4	-111.5	-66.1		93.0	130.9		84.3		164.2	
7	-94.0	-183.0	-92.7	-251.8		144.8	139.5		7.6		-96.7	
8	-112.3	-65.5	-137.3	-130.7		108.1	75.8		-7.5		-116.7	
9	-52.9	-2.0	-91.4	-17.7		-74.3	-33.6		-180.9		-95.0	
10	-11.1	12.2	-30.7	21.0		-42.1	-17.9		-162.6		61.0	

PITCH LINK

HARMONIC	LOAD			.5R			.6R			.7R		
	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS
0	61.8		-4348.1			4318.0			3356.3			
1	128.4	332.3	-2090.2	6329.0		-2981.9	5400.9		-2785.0		3857.8	
2	111.6	79.4	2512.3	-860.7		3330.3	-27.2		3646.3		337.4	
3	-16.4	19.4	-1729.6	-624.2		-1136.0	-1926.9		-638.8		-1744.4	
4	14.0	-46.2	-334.6	3129.2		-508.7	2866.0		-592.4		1283.7	
5	2.3	10.1	-288.5	-1317.7		-290.7	-1202.4		-613.7		-490.4	
6	1.5	24.9	-538.0	-116.5		-338.2	-328.8		-106.0		-277.7	
7	-9.3	6.5	-513.7	-205.7		-612.8	-50.5		-220.7		288.8	
8	-4.8	5.0	-236.9	-215.0		-173.6	-167.7		-56.9		140.2	
9	4.4	-5.1	-239.5	107.7		-61.7	216.6		32.0		286.3	
10	1.0	-5.8	-169.1	88.2		-83.9	125.9		-25.2		0.3	

RUN 12 POINT 11
SWEPT/TAPERED TIP

V/OR = 0.250 ALFS,U = -5.0 CLR/S = 0.11434 CP/S = 0.007060
 MAT = 0.751 THETA = 14.0 CXK/S = 0.00936 RHO = 0.002307

PSI	NORMAL BENDING MOMENT			PITCH LINK			EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD		.5R	.6R	.7R
0.00	565.	-7053.	620.	-1727.	203.		-8086.	1461.	1996.
11.25	656.	-7365.	1247.	-776.	337.		-4809.	3607.	3483.
22.50	1563.	-7061.	1339.	130.	479.		-701.	6288.	4414.
33.75	2114.	-7150.	1207.	145.	530.		595.	7505.	4840.
45.00	1890.	-7587.	1485.	-31.	485.		-281.	7000.	5129.
56.25	1322.	-7571.	1613.	-163.	446.		-1892.	5356.	4373.
67.50	768.	-6870.	800.	-666.	425.		-3119.	4470.	2952.
78.75	245.	-5971.	-242.	-1346.	366.		-2628.	5469.	2823.
90.00	-318.	-5468.	-595.	-1907.	264.		-846.	7120.	4301.
101.25	-840.	-5465.	-616.	-2232.	180.		1032.	8886.	6075.
112.50	-1062.	-5665.	-671.	-2042.	130.		2961.	11088.	7376.
123.75	-807.	-5665.	-409.	-1532.	111.		3931.	11754.	7573.
135.00	-242.	-5737.	109.	-1349.	123.		2283.	9298.	6333.
146.25	196.	-5928.	343.	-1753.	150.		-694.	6345.	5367.
157.50	207.	-6215.	210.	-2515.	159.		-1990.	6148.	6579.
168.75	-48.	-6400.	-27.	-3039.	126.		-713.	8561.	8947.
180.00	-181.	-6280.	-310.	-2913.	64.		1757.	11627.	10448.
191.25	-23.	-6047.	-648.	-2707.	-4.		3213.	13591.	10909.
202.50	289.	-6119.	-769.	-2805.	-55.		1783.	13052.	10406.
213.75	646.	-6604.	-314.	-2475.	-202.		-2857.	9362.	8021.
225.00	578.	-7326.	595.	-1557.	-246.		-9432.	3162.	3885.
236.25	1349.	-8028.	1559.	-506.	-223.		-15289.	-3302.	-462.
247.50	1754.	-8559.	2667.	1248.	-235.		-17421.	-7207.	-3951.
258.75	1568.	-9124.	3975.	3642.	-299.		-15679.	-7625.	-5974.
270.00	1581.	-9709.	4706.	5028.	-359.		-12704.	-5665.	-5917.
281.25	2095.	-9663.	4491.	5296.	-416.		-9926.	-2815.	-4525.
292.50	2118.	-9025.	4165.	5500.	-433.		-7971.	-998.	-3408.
303.75	1575.	-6842.	3987.	4539.	-304.		-8264.	-1134.	-2264.
315.00	1013.	-8941.	3086.	1646.	-75.		-9372.	-847.	220.
326.25	1317.	-7580.	1449.	-843.	65.		-8140.	1536.	2753.
337.50	1848.	-6449.	226.	-1538.	98.		-6431.	3091.	2938.
348.75	1417.	-6200.	47.	-1750.	126.		-7452.	1992.	1762.

RUN 11 POINT 25

SWEPT/TAPERED TIP

V/OR = 0.251 ALFS,U = 0.0 CLR/S = 0.11752 CP/S = 0.004193
 MAT = 0.750 TFCIA = 12.0 CXR/S = -0.00127 RHO = 0.002271

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	447.8		-7106.9		558.7		558.7		-791.8		-791.8	
1	762.6	-934.4	-797.1	1461.6	951.4	-1455.2	951.4	-1455.2	1307.7	-1893.5	1307.7	-1893.5
2	-318.6	396.7	944.1	-234.9	-1164.6	57.9	-1164.6	57.9	-1900.0	3.9	-1900.0	3.9
3	-132.3	417.7	295.3	-807.9	-335.1	1009.8	-335.1	1009.8	-646.0	1286.0	-646.0	1286.0
4	-154.1	-23.1	92.9	38.2	-86.3	44.8	-86.3	44.8	-41.3	478.5	-41.3	478.5
5	120.4	14.0	33.3	-50.8	-24.3	-71.2	-24.3	-71.2	-1.3	-167.1	-1.3	-167.1
6	38.9	5.3	18.9	-14.0	-10.4	15.7	-10.4	15.7	97.0	-50.7	97.0	-50.7
7	-47.5	33.0	-71.2	-8.3	81.5	-91.8	81.5	-91.8	11.0	-109.5	11.0	-109.5
8	-31.5	6.2	-99.3	-60.0	88.0	-99.3	88.0	-99.3	-36.1	-197.1	-36.1	-197.1
9	-45.0	25.4	-106.8	22.4	16.0	-111.6	16.0	-111.6	-144.9	-119.2	-144.9	-119.2
10	-27.2	40.1	-56.7	90.2	48.4	-77.6	48.4	-77.6	-56.4	71.8	-56.4	71.8

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5R			.6R			.7R		
	COS	SIN	LOAD	COS	SIN	COS	SIN	COS	SIN	COS	SIN	SIN
0	100.7			-2872.3		4329.7		4329.7		4602.3		
1	94.0	294.7		-2713.6	5545.7	-3511.9	4771.8	-3511.9	4771.8	-3199.9	3682.2	
2	103.4	70.7		3432.0	-861.6	3914.2	-405.4	3914.2	-405.4	3941.7	-227.4	
3	6.3	23.9		-1765.8	-765.2	-1318.6	-1614.4	-1318.6	-1614.4	-665.4	-1436.4	
4	-30.5	-37.0		-509.6	3919.5	-475.1	3465.8	-475.1	3465.8	-450.8	2049.0	
5	-41.7	4.3		-2433.7	-74.0	-2115.2	257.3	-2115.2	257.3	-1792.9	485.6	
6	-47.6	12.7		-494.3	-90.0	-300.2	-218.5	-300.2	-218.5	-319.9	-138.5	
7	-23.0	22.1		-488.1	501.9	-577.3	528.0	-577.3	528.0	-340.6	326.0	
8	-7.2	2.6		-93.0	-99.1	-226.2	98.7	-226.2	98.7	-82.2	143.3	
9	6.5	-13.1		-375.7	133.9	-401.1	326.2	-401.1	326.2	-178.3	322.9	
10	-0.4	-14.8		-296.8	329.9	-358.7	388.6	-358.7	388.6	-119.4	192.6	

RUN 11 POINT 25
SWEPT/TAPERED TIP

V/OR = 0.251 ALFS,U = 0.0 CLR/S = 0.11752 CP/S = 0.004193
MAT = 0.750 THETA = 12.0 CXR/S = -0.00127 RHD = 0.002271

NORMAL BENDING MOMENT PITCH LINK EDGEWISE BENDING MOMENT

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	613.	-6853.	123.	-2202.	161.	-8611.	-1040.	1355.
11.25	1076.	-6855.	-31.	-1599.	310.	-1858.	5519.	5616.
22.50	1216.	-7232.	760.	-335.	520.	3255.	9153.	7923.
33.75	1088.	-7815.	1618.	394.	558.	3292.	7939.	7228.
45.00	1103.	-7832.	1415.	309.	444.	715.	5941.	5466.
56.25	1010.	-7378.	808.	-231.	398.	-3223.	3088.	2775.
67.50	532.	-6808.	312.	-967.	399.	-6131.	549.	844.
78.75	-121.	-6181.	-351.	-1759.	329.	-4660.	2268.	2424.
90.00	-777.	-5770.	-869.	-2366.	247.	-247.	6815.	6128.
101.25	-1188.	-5555.	-991.	-2439.	214.	3825.	10440.	8855.
112.50	-1148.	-5294.	-1040.	-2137.	190.	6170.	12324.	9867.
123.75	-884.	-5319.	-898.	-2130.	181.	4982.	11105.	9067.
135.00	-724.	-5727.	-506.	-2513.	198.	718.	7032.	7041.
146.25	-651.	-5951.	-487.	-2924.	214.	-1749.	5055.	6443.
157.50	-636.	-5886.	-883.	-3295.	214.	135.	7725.	8706.
168.75	-700.	-5769.	-1133.	-3473.	170.	4021.	11517.	11945.
180.00	-704.	-5560.	-1256.	-3255.	76.	6943.	14808.	13709.
191.25	-570.	-5490.	-1376.	-3112.	6.	6712.	14848.	13134.
202.50	-259.	-5757.	-1216.	-3131.	-25.	3186.	11926.	10950.
213.75	313.	-6265.	-745.	-2595.	-72.	-1358.	8104.	8208.
225.00	900.	-7028.	-20.	-1630.	-110.	-6510.	3619.	4763.
236.25	1213.	-8216.	1107.	-637.	-130.	-12310.	-2228.	664.
247.50	1453.	-9151.	2455.	1075.	-185.	-15051.	-6268.	-2558.
258.75	1755.	-9676.	3638.	3270.	-228.	-13557.	-6652.	-4302.
270.00	1915.	-10265.	4243.	347.	-232.	-11385.	-6069.	-5074.
281.25	1996.	-10357.	4118.	4431.	-308.	-10919.	-4635.	-4216.
292.50	2017.	-9553.	3558.	4495.	-402.	-8050.	-1316.	-1806.
303.75	1620.	-3943.	3028.	3422.	-293.	-5481.	922.	516.
315.00	1001.	-8610.	2043.	693.	-37.	-4747.	1722.	2773.
326.25	746.	-7493.	527.	-1401.	122.	-4249.	3299.	4694.
337.50	622.	-6338.	-179.	-1750.	151.	-5748.	2354.	3551.
348.75	472.	-6406.	137.	-1887.	140.	-9424.	-1755.	585.

RUN 17 POINT 13
SWEEP/TAPERED TIP

V/OR = 0.401 ALFS,U = -5.0 CLR/S = 0.07192 CP/S = 0.005460
MAT = 0.841 TPEIA = 12.0 CXR/S = 0.00533 RHO = 0.002208

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	139.6		-7082.7		710.7		468.5	
1	1115.2	-1365.5	-1522.2	1689.0	1500.6	-1817.8	1685.7	-2470.7
2	-544.0	1014.8	1018.8	-1127.0	-1123.3	1204.3	-1671.8	1542.9
3	190.0	607.4	-559.4	-838.7	526.9	1118.7	462.3	1616.3
4	160.0	304.3	143.9	-106.7	-146.3	77.4	-169.1	7.1
5	129.5	119.8	-84.6	77.0	-176.5	-69.0	-455.7	36.0
6	49.0	60.6	-31.8	35.9	5.3	-82.3	-128.1	-65.7
7	-32.7	161.4	-34.7	158.9	25.8	-124.8	37.1	1.0
8	1.7	-50.5	3.7	-112.7	0.2	62.0	23.9	-2.0
9	-6.2	55.2	9.9	48.8	37.1	-40.4	51.3	8.9
10	2.8	11.3	-34.0	1.4	22.6	-5.9	10.9	-16.3

BLADE EDGEWISE BENDING MOMENT

	.5R		.6R		.7R	
PITCH LINK	COS	SIN	CCS	SIN	CCS	SIN
HARMONIC						
0	80.5		-3095.7		5750.7	
1	168.7	161.9	-3738.3	5700.7	-4359.7	5563.7
2	32.4	12.2	2725.7	-3163.2	3006.5	-3473.1
3	-60.8	76.5	-2325.1	593.2	-2000.8	-382.4
4	-10.9	4.3	3810.9	2082.7	3494.1	1902.9
5	-14.5	19.6	1396.9	-288.4	1708.1	-230.5
6	-13.2	6.1	-192.7	-665.3	-243.8	-527.0
7	-13.2	-2.2	256.0	520.8	225.6	504.0
8	-7.2	-1.4	-108.0	-261.4	-149.6	-202.4
9	2.1	-7.6	44.7	142.7	-63.2	124.1
10	-2.2	-2.2	12.3	34.4	79.0	56.5

RUN 17 POINT 13
SWEPT/TAPERED TIP

V/OR = 0.401 ALFS,U = -5.0 CLR/S = 0.07192 CP/S = 0.005460
MAT = 0.841 T/FETA = 12.0 CXK/S = 0.00533 RHU = 0.002208

	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1205.	-3173.	1383.	275.	162.	-1213.	7507.	5900.
11.25	2091.	-8506.	1916.	1484.	293.	-1473.	6651.	4327.
22.50	2051.	-8779.	2611.	2829.	442.	-4129.	3265.	896.
33.75	1409.	-8906.	3075.	3558.	477.	-6506.	268.	-1716.
45.00	788.	-8554.	2613.	2908.	404.	-6866.	-28.	-1789.
56.25	343.	-7735.	1337.	1155.	334.	-5279.	2506.	546.
67.50	-53.	-6700.	-14.	-603.	294.	-2464.	6364.	3749.
78.75	-545.	-5788.	-941.	-1617.	231.	479.	9632.	6129.
90.00	-1166.	-5394.	-1261.	-1931.	145.	2503.	11589.	7568.
101.25	-1620.	-5345.	-1195.	-1988.	79.	3456.	12550.	8641.
112.50	-1715.	-5099.	-1255.	-2153.	50.	3378.	12403.	8820.
123.75	-1617.	-4848.	-1516.	-2494.	47.	2248.	11409.	8130.
135.00	-2217.	-4554.	-1667.	-2833.	66.	1610.	11358.	8272.
146.25	-2457.	-4772.	-1852.	-2981.	99.	3672.	13487.	9832.
157.50	-2238.	-3890.	-1334.	-2982.	107.	7480.	16437.	11347.
168.75	-1789.	-3309.	-695.	-3070.	65.	9256.	17654.	11778.
180.00	-1587.	-3791.	-2445.	-3206.	-3.	7518.	16367.	11241.
191.25	-1313.	-4741.	-1793.	-2946.	-76.	4386.	13858.	10011.
202.50	-507.	-5618.	-1068.	-2012.	-161.	966.	11089.	7868.
213.75	492.	-6724.	4.	-476.	-227.	-4504.	6228.	3688.
225.00	1109.	-8215.	1666.	1600.	-227.	-12091.	-1537.	-2653.
236.25	1498.	-9555.	3426.	3943.	-192.	-17597.	-7997.	-7990.
247.50	2062.	-10339.	4503.	5789.	-165.	-17249.	-8591.	-8918.
258.75	2604.	-10475.	4769.	6533.	-124.	-12173.	-4312.	-5884.
270.00	2753.	-10383.	4581.	6155.	-54.	-6379.	918.	-1474.
281.25	2511.	-10083.	3972.	4858.	2.	-3128.	4398.	1994.
292.50	1940.	-9276.	2864.	3143.	38.	-3835.	4455.	2279.
303.75	1084.	-8111.	1665.	1793.	73.	-7463.	1407.	-683.
315.00	275.	-7169.	820.	971.	94.	-10713.	-1365.	-3271.
326.25	-302.	-6785.	374.	207.	94.	-10894.	-1068.	-2443.
337.50	-435.	-6990.	377.	-454.	58.	-8048.	1780.	967.
348.75	82.	-7599.	829.	-463.	112.	-4014.	5258.	4439.

RUN 21 PCINT 14
SWEPT/TAPERED TIP

V/C R = 0.4J1 ALFS,U = -10.0 CLR/S = 0.06865 CP/S = 0.008521
 MAT = 0.842 THETA = 15.0 CXR/S = 0.01186 RHO = 0.002210

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	636.5		-7038.4		1229.2		543.3	
1	1178.6	-991.5	-1336.5	1216.5	1556.7	-1564.6	1805.7	-2194.5
2	-517.4	747.0	788.0	-616.4	-1028.6	696.7	-1644.4	785.1
3	-35.5	791.6	-129.4	-639.0	96.0	1153.7	-4.4	1464.0
4	126.2	172.2	128.0	-56.6	-227.4	145.1	-309.5	257.3
5	-238.2	191.3	-68.2	4.4	90.1	-150.7	72.5	-257.1
6	18.5	13.7	23.8	-40.5	8.3	-5.5	3.0	-95.8
7	-92.3	135.4	-71.8	116.7	77.8	-110.8	35.0	5.8
8	8.3	24.3	35.8	26.0	11.8	-29.2	53.7	14.4
9	-22.7	18.8	-18.9	33.2	46.1	13.1	17.9	37.8
10	-23.7	11.4	-26.9	4.1	37.5	12.0	11.7	20.5

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK LOAD		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	71.7		-3878.5		4545.9		17908.2	
1	222.8	161.8	-2940.4	5276.5	-4033.7	5217.1	-3317.1	4496.8
2	35.5	33.2	1670.6	-2319.9	2215.6	-2340.4	2357.3	-1810.0
3	-86.5	83.0	-2153.5	158.4	-1685.0	-570.2	-1182.5	-367.1
4	9.5	-32.5	3019.9	3224.0	2902.6	2779.6	2456.6	2085.0
5	-56.2	3.9	1214.1	-2374.2	1109.3	-1811.3	956.1	-1417.7
6	12.2	-23.8	439.3	-413.5	301.1	-352.7	249.1	-201.1
7	6.1	-2.1	-308.4	383.8	-317.2	332.3	-154.1	63.6
8	4.2	6.2	33.8	74.3	-108.2	56.3	-148.4	-6.7
9	-5.0	7.8	-26.5	62.3	-27.0	-44.4	40.9	-64.1
10	0.9	-8.5	-57.5	37.5	-35.2	22.5	56.2	18.3

RUN 21 POINT 14
SWEPT/TAPERED TIP

V/OR = 0.401 ALFS,U = -10.0 CLR/S = 0.06865 CP/S = 0.008521
MAT = 0.842 THETA = 15.0 CXR/S = 0.01186 RHO = 0.002210

NORMAL BENDING MOMENT PITCH LINK EDGEWISE BENDING MOMENT

	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
C.30	1038.	-7711.	1898.	585.	212.	-2992.	4868.	19222.
1.25	2256.	-8025.	2231.	1254.	284.	-3369.	4275.	18254.
22.50	2814.	-8491.	2690.	1899.	356.	-5339.	2354.	16500.
33.75	2482.	-8756.	3280.	2614.	503.	-6433.	658.	15279.
45.00	1850.	-9363.	3143.	2762.	555.	-5087.	1182.	15279.
56.25	1181.	-7619.	2098.	1743.	493.	-2918.	3561.	16763.
67.50	472.	-6548.	911.	102.	316.	-1869.	5825.	18791.
78.75	-84.	-6281.	-35.	-1241.	164.	-1517.	7085.	19988.
90.00	-415.	-5679.	-749.	-1967.	128.	-455.	8458.	20872.
101.25	-650.	-5382.	-1022.	-2107.	98.	1839.	10817.	22655.
112.50	-860.	-5286.	-845.	-1813.	0.	4261.	12885.	24331.
123.75	-1156.	-5294.	-550.	-1502.	-65.	4519.	12678.	24247.
135.00	-1531.	-5480.	-399.	-1573.	-66.	1947.	10489.	22992.
146.25	-1592.	-5534.	-605.	-2072.	-31.	-729.	8856.	22235.
157.50	-1135.	-5094.	-1213.	-2741.	49.	-473.	9592.	22757.
168.75	-615.	-4528.	-1787.	-3222.	122.	2512.	12228.	24528.
180.00	-541.	-4461.	-1836.	-3269.	57.	5447.	14775.	26536.
191.25	-818.	-4539.	-1324.	-2756.	-120.	5587.	14915.	26753.
202.50	-878.	-5555.	-523.	-1806.	-269.	1866.	11430.	23815.
213.75	-306.	-6235.	313.	-489.	-339.	-4822.	5109.	18268.
225.00	677.	-7034.	1222.	854.	-325.	-12379.	-2042.	12146.
236.25	1554.	-8127.	2434.	2197.	-225.	-17880.	-7539.	7965.
247.50	2224.	-9149.	3713.	3655.	-123.	-18146.	-8673.	7380.
258.75	2785.	-9621.	4453.	5004.	-83.	-12615.	-4684.	10140.
270.00	3002.	-9632.	4742.	5801.	-56.	-5300.	1260.	14235.
281.25	2699.	-9457.	4683.	5732.	-15.	-1613.	4473.	16791.
292.50	2125.	-9167.	4129.	4708.	12.	-3541.	3066.	15920.
303.75	1559.	-8454.	3044.	3095.	48.	-8498.	-875.	12814.
315.00	1079.	-7625.	1907.	1583.	102.	-11939.	-3489.	10796.
326.25	657.	-6972.	1106.	511.	140.	-11350.	-2541.	11797.
337.50	263.	-6896.	878.	-87.	158.	-8058.	755.	14958.
348.75	232.	-7305.	1309.	-28.	178.	-4765.	3678.	18054.

UN 17 POINT 10
SWEPT/TAPERED TIP

V/OR = 0.401 ALFS,U = 0.0 CLR/S = 0.09496 CP/S = 0.004659
MAT = 0.842 TETA = 12.0 CRR/S = 0.00017 RHO = 0.002228

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN		COS	SIN		COS	SIN		COS	SIN	
0	68.0			-6805.8			419.6			-144.3		
1	1414.1	-1016.5		-1828.5	2112.7		1745.3	-2207.4		1306.7	-2817.5	
2	-750.1	1237.8		1426.9	-1527.3		-1591.7	1738.6		-2385.4	2401.5	
3	231.6	745.8		-544.7	-982.2		527.8	1320.4		481.7	2011.0	
4	130.8	295.5		217.1	-195.3		-223.7	181.0		-270.9	61.8	
5	196.2	333.9		-87.0	92.6		-230.8	-123.3		-535.7	-99.1	
6	109.1	253.8		-93.3	25.4		33.3	-230.7		-223.1	-273.2	
7	-154.1	371.2		-244.5	268.2		212.0	-270.1		14.2	-123.9	
8	-33.1	-58.4		-91.7	-152.8		-3.7	38.0		-46.5	-89.0	
9	-8.9	101.5		-34.3	70.6		-14.2	-121.8		-87.3	-63.5	
10	15.3	-0.5		-61.7	60.3		-70.8	-45.0		-128.7	-6.2	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN		COS	SIN		COS	SIN		COS	SIN	
0	57.5			-2286.4			6517.8			4494.0		
1	185.6	250.8		-5078.1	7091.3		-3419.2	6549.4		-3662.3	4985.4	
2	83.7	29.9		4567.4	-5470.2		4772.3	-6002.1		4158.1	-5328.2	
3	-13.3	70.2		-4436.7	1773.2		-3839.9	345.1		-2689.7	-274.5	
4	12.3	-37.5		4226.9	3127.4		3718.7	2808.9		2993.1	2382.5	
5	-12.5	-20.7		423.4	-4316.7		1046.7	-3681.7		1171.8	-3146.1	
6	-43.2	-74.3		-978.4	-1431.6		-876.6	-856.9		-354.0	-747.9	
7	-55.8	-31.0		-493.1	930.3		-577.2	910.5		-118.4	440.7	
8	-41.6	-20.2		-352.5	-436.4		-122.2	-301.5		-58.4	-115.3	
9	-13.2	-17.0		-132.6	434.6		-79.1	467.5		62.2	274.7	
10	-15.3	-4.6		-56.2	236.4		211.3	138.7		221.8	13.8	

RUN 17 POINT 10
SWEPT/TAPERED TIP

V/OR = 0.001 ALFS,U = 0.0 CLR/S = 0.09496 CP/A = 0.004659
MAT = 0.842 THETA = 12.0 CXR/S = 0.00017 RHI = 1.002228

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1223.	-8146.	833.	-1519.	116.	-4596.	5353.	6178.
11.25	2915.	-8202.	1307.	236.	199.	-5269.	2100.	2777.
22.50	2767.	-8441.	2516.	2826.	506.	-5324.	1669.	-296.
33.75	1475.	-9079.	3464.	4101.	593.	-4469.	1344.	-618.
45.00	521.	-9055.	3271.	3555.	457.	-2872.	2515.	718.
56.25	369.	-8003.	1831.	1620.	355.	-2589.	3933.	2069.
67.50	299.	-6438.	-276.	-823.	306.	-3329.	5467.	3126.
78.75	-229.	-5220.	-1660.	-2304.	244.	-2135.	6767.	3864.
90.00	-1510.	-4562.	-1682.	-2592.	175.	-1409.	8087.	5311.
101.25	-2357.	-4949.	-1466.	-2796.	116.	2451.	11187.	8575.
112.50	-2270.	-4278.	-1948.	-3277.	89.	7449.	15557.	12128.
123.75	-2205.	-3741.	-2614.	-3789.	77.	9274.	17959.	13589.
135.00	-2758.	-3585.	-2863.	-4310.	62.	7123.	17169.	12963.
146.25	-3254.	-3796.	-2978.	-4571.	99.	6572.	16322.	12204.
157.50	-2864.	-2625.	-3459.	-4568.	160.	10463.	16488.	13170.
168.75	-2230.	-1938.	-4013.	-4785.	107.	14585.	22199.	15498.
180.00	-2135.	-2670.	-3707.	-4879.	-37.	14838.	23090.	16651.
191.25	-2067.	-4383.	-2492.	-4156.	-147.	11563.	20128.	15390.
202.50	-1118.	-5350.	-1310.	-2756.	-233.	5539.	15023.	11700.
213.75	427.	-6547.	-116.	-741.	-284.	-4779.	6131.	3936.
225.00	1442.	-8158.	1856.	1942.	-251.	-18464.	-7174.	-7046.
236.25	1944.	-9583.	3979.	4512.	-238.	-27650.	-16936.	-14444.
247.50	2573.	-11046.	5155.	6399.	-296.	-24811.	-15391.	-13386.
258.75	3090.	-11126.	5533.	7524.	-277.	-13139.	-5747.	-6459.
270.00	3085.	-10942.	5324.	7143.	-161.	-2480.	3928.	1415.
281.25	2773.	-10539.	4361.	5192.	-91.	1166.	8412.	5977.
292.50	2187.	-9565.	3159.	3063.	-117.	-2889.	5507.	4367.
303.75	1274.	-8411.	1937.	1148.	-216.	-10535.	-729.	-197.
315.00	451.	-7259.	293.	-667.	-254.	-13250.	-1803.	-1026.
326.25	-226.	-6114.	-880.	-1903.	4.	-8025.	3082.	2481.
337.50	-886.	-5566.	-451.	-1646.	376.	-2568.	6761.	5929.
348.75	-591.	-7161.	521.	-1598.	379.	-2601.	6633.	7261.

RUN 21 POINT 26
SWEPT/TAPERED TIP

V/OR = 0.375 ALFS,U = -5.0 CLR/S = 0.07663 CP/S = 0.005788
 MAT = 0.896 THEIA = 12.0 CXR/S = 0.00547 RHO = 0.002171

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	134.2	-1139.7	-6563.7	1283.1	754.6	-1637.9	63.6	-2347.2
1	1059.2	1112.1	-1392.2	-1025.1	1672.6	1284.2	2057.4	1543.9
2	-452.1	175.1	820.0	-398.1	-1349.5	587.0	-1551.8	782.6
3	136.9	607.7	-460.2	-126.9	498.6	11.3	528.4	-274.3
4	334.2	-197.1	94.8	-29.0	-268.7	101.5	-483.3	211.4
5	40.8	168.4	-107.2	24.4	-115.9	-76.6	-492.8	-186.6
6	60.4	-11.9	57.2	-82.6	-29.5	55.2	-41.5	-30.9
7	-367.5	14.1	-417.8	-0.5	373.8	-76.8	-36.7	2.4
8	18.4	21.7	88.7	57.2	-7.9	38.4	80.6	111.1
9	-38.7	31.0	-24.5	-35.2	36.7	-99.0	14.5	-120.9
10	-12.1		-30.3		-16.2		-58.9	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	71.1	156.3	-2425.4	5424.5	7933.8	5276.8	1481.9	4882.1
1	196.3	74.3	-4574.3	-3192.7	-5387.5	-3634.8	-4382.4	-2887.6
2	26.3	47.5	2428.1	1209.0	2701.2	695.6	2313.1	632.7
3	-101.2	24.1	-1383.1	3655.3	-1196.4	3499.3	-701.4	3266.8
4	24.7	12.4	2129.5	372.1	2257.9	179.9	2135.5	-15.3
5	-0.7	-30.2	-483.3	-653.7	-56.7	-534.7	481.5	-348.1
6	-6.9	3.1	603.3	145.0	473.2	195.4	413.6	376.3
7	-24.1	-19.8	-971.6	-182.5	-903.9	-210.8	20.5	-236.8
8	9.0	12.6	136.3	278.2	-88.5	129.6	-204.7	25.5
9	7.0	-19.2	-123.2	-193.2	-154.0	-1.6	-145.4	-92.1
10	0.5		39.0		230.5		348.4	

RUN 21 POINT 26 SWEPT/TAPERED TIP

V/OR = 0.375 ALFS,U = -5.0 CLR/S = 0.07663 CP/S = 0.005788
 MAT = 0.896 THETA = 12.0 CXR/S = 0.00547 RHO = 0.002171

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3P	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	924.	-7535.	1849.	79.	202.	-4625.	5809.	1761.
11.25	1876.	-8106.	2139.	815.	274.	-1678.	7924.	2819.
22.50	2184.	-7868.	2405.	2006.	424.	-300.	8404.	2014.
33.75	1521.	-7835.	2671.	2701.	519.	-2050.	6284.	-231.
45.00	617.	-7809.	2653.	2496.	482.	-5318.	2864.	-2859.
56.25	153.	-7382.	1556.	1280.	405.	-7100.	1763.	-2993.
67.50	146.	-6584.	539.	-499.	347.	-6280.	4160.	-838.
78.75	41.	-5745.	-547.	-1456.	295.	-3040.	7727.	1193
90.00	-588.	-5435.	-567.	-1463.	216.	1491.	11354.	4221.
101.25	-1269.	-5674.	-487.	-1949.	75.	5161.	15424.	8818.
112.50	-1358.	-5403.	-1117.	-2843.	-43.	7198.	18261.	11214.
123.75	-1307.	-4338.	-1878.	-3173.	-60.	7655.	18347.	10129.
135.00	-2018.	-3840.	-2275.	-3551.	-87.	5524.	16410.	8467.
146.25	-3222.	-4285.	-2345.	-4233.	-132.	2843.	14767.	7817.
157.50	-3599.	-4229.	-2268.	-4161.	-31.	4673.	16172.	8699.
168.75	-2473.	-3345.	-2594.	-3763.	111.	9666.	20083.	10859.
180.00	-758.	-3132.	-3083.	-4062.	47.	10446.	21207.	11215.
191.25	192.	-4238.	-2333.	-3995.	-94.	5554.	17068.	8611.
202.50	323.	-5929.	-429.	-2550.	-116.	-154.	11569.	5641.
213.75	528.	-7022.	1016.	-414.	-129.	-4714.	7074.	1920.
225.00	669.	-7508.	1902.	1979.	-200.	-8984.	2108.	-4120.
236.25	1194.	-8049.	3150.	4232.	-231.	-12364.	-2383.	-8805.
247.50	1745.	-8948.	4231.	5157.	-228.	-13846.	-3833.	-8962.
258.75	1812.	-9462.	4321.	4750.	-190.	-12531.	-2144.	-6703.
270.00	2369.	-9019.	3713.	4090.	-46.	-7951.	2003.	-3546.
281.25	2458.	-8270.	2870.	3250.	89.	-3105.	6760.	12.
292.50	1745.	-7917.	2236.	2222.	80.	-2370.	7851.	945.
303.75	511.	-7685.	2108.	1723.	33.	-5547.	4384.	-1743.
315.00	-294.	-7122.	1783.	1587.	27.	-8897.	568.	-4921.
326.25	-156.	-6449.	879.	1129.	24.	-10173.	462.	-6318.
337.50	140.	-6340.	503.	532.	63.	-9416.	1593.	-5220.
348.75	327.	-7074.	1153.	122.	149.	-7383.	3401.	-1674.

RUN 21 POINT 36
SHEPI/TAPERED TIP

V/OR = 0.376 ALFS,U = -10.0 CLR/S = 0.08127 CP/S = 0.009188
MAT = 0.896 THETA = 15.5 CXR/S = 0.01258 RHO = 0.002155

BLADE NORMAL BENDING MOMENT

HARMONIC	.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN
0	644.6	-897.5	-7055.7	1347.5	1020.5	
1	1127.5	916.3	-1352.3	1070.3	1949.0	-2046.2
2	-458.5	374.6	736.1	-632.3	-973.6	731.6
3	-11.2	545.3	-205.1	-513.4	202.1	728.4
4	211.6	-156.3	120.5	-86.9	-358.4	-14.5
5	1.6	108.8	-93.3	-50.4	-18.7	74.5
6	36.6	-100.6	96.0	20.5	-41.2	-34.4
7	-245.2	22.3	-236.1	-141.8	222.6	123.9
8	-5.3	-15.1	32.7	34.0	25.9	-6.3
9	-25.4	14.3	-29.3	11.4	-1.9	75.1
10	-15.0		-5.6	-28.4	17.1	-70.1
					-2.3	-104.6

BLADE EDGEWISE BENDING MOMENT

HARMONIC	.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN
0	30.2	183.6	-2975.2	7017.3	728.9	
1	223.4	119.0	-4054.6	5488.2	-5124.8	5214.5
2	51.5	32.3	1600.4	-2351.0	2172.3	-2474.3
3	-156.9	35.9	-1646.3	1010.6	-1373.2	524.8
4	69.8	-14.3	811.6	5368.7	1226.5	5045.2
5	-36.1	-19.7	-711.9	-46.7	-470.7	-107.9
6	15.5	-11.2	774.7	-4.0	651.7	24.3
7	-4.3	1.9	-771.7	-269.0	-708.1	-248.9
8	6.5	6.3	121.1	-6.1	23.8	-179.3
9	1.2	-6.3	-118.7	19.9	-27.8	-151.1
10	-0.1		-68.3	15.2	-118.3	8.1
					-37.6	-146.1
						272.1

RUN 21 POINT 36
SWEPT/TAPERED TIP

V/D = 0.370 ALFS,U = -10.0 CLR/S = 0.08127 CP/S = 0.009188
MAT = J.896 THETA = 15.5 CXR/S = 0.01258 RHO = 0.002155

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1281.	-8002.	2053.	741.	201.	-7039.	3269.	-776.
11.25	2088.	-8367.	2532.	1357.	286.	-2215.	7133.	2260.
22.50	2649.	-8341.	2790.	2321.	403.	825.	9241.	2879.
33.75	2409.	-8309.	2598.	2984.	519.	158.	8201.	1379.
45.00	1671.	-8220.	3055.	3058.	567.	-2990.	4916.	-1340.
56.25	1050.	-7757.	2558.	2321.	509.	-6015.	2061.	-3542.
67.50	730.	-7127.	1343.	769.	382.	-6689.	2612.	-2907.
78.75	432.	-6458.	224.	-512.	272.	-4141.	6224.	-42.
90.00	-76.	-6032.	-76.	-786.	194.	370.	10242.	2999.
101.25	-564.	-5965.	-117.	-910.	72.	4866.	14334.	6540.
112.50	-702.	-5851.	-443.	-1250.	-92.	8101.	18193.	9790.
123.75	-733.	-5345.	-664.	-1206.	-217.	8585.	18642.	9575.
135.00	-1158.	-4992.	-696.	-1266.	-283.	5324.	15121.	6638.
146.25	-2038.	-5200.	-847.	-1988.	-277.	887.	11786.	5008.
157.50	-2450.	-5248.	-1036.	-2481.	-144.	7.	11750.	5716.
168.75	-1768.	-4636.	-1405.	-2527.	54.	3713.	14893.	7840.
180.00	-413.	-4170.	-2018.	-2922.	146.	7567.	18678.	10435.
191.25	467.	-4697.	-1854.	-3068.	77.	6824.	18604.	10735.
202.50	404.	-5507.	-440.	-1950.	-83.	1627.	13355.	7201.
213.75	434.	-6932.	990.	-91.	-260.	-4340.	7061.	1992.
225.00	789.	-7429.	1800.	1882.	-368.	-8997.	2189.	-3379.
236.25	1229.	-7850.	2721.	3800.	-365.	-12711.	-2266.	-8245.
247.50	1586.	-8628.	3757.	4887.	-308.	-14863.	-4832.	-9842.
258.75	2104.	-9357.	4208.	4897.	-232.	-13616.	-3246.	-7389.
270.00	2092.	-9406.	4102.	4710.	-115.	-9069.	882.	-3964.
281.25	2877.	-8962.	3749.	4553.	-8.	-3920.	5020.	-1251.
292.50	2344.	-8602.	3315.	4086.	11.	-1463.	7366.	346.
303.75	1270.	-8359.	3064.	3604.	-25.	-3390.	5683.	-1058.
315.00	369.	-7933.	2768.	3169.	-48.	-8000.	1033.	-4958.
326.25	227.	-7335.	1988.	2346.	-37.	-11567.	-1968.	-7575.
337.50	549.	-7002.	1280.	1360.	21.	-12315.	-1737.	-7175.
348.75	831.	-7322.	1416.	766.	115.	-10722.	115.	-4565.

RUN 21 POINT 23 SWEPT/TAPERED TIP

V/CR = 0.377 ALFS,U = 0.0 CLR/S = 0.09473 CP/S = 0.004593
 MAT = 0.895 THETA = 11.5 CRR/S = 0.00001 RHO = 0.002179

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	-60.8	-1294.7	-279.3	413.1	-573.3			
1	1277.1	-1294.7	-1518.8	1505.5	1744.0	-1872.2	2068.9	-2621.6
2	-623.5	1235.3	1135.7	-1169.7	-1415.4	1517.0	-2037.1	1844.2
3	20.7	385.8	-317.2	-576.1	362.5	834.5	286.7	1129.4
4	452.3	631.7	83.7	-139.3	-333.7	55.3	-742.1	-317.8
5	-91.2	190.1	-188.6	23.1	-3.7	-76.6	-370.4	-21.6
6	29.9	342.6	-74.1	25.0	82.9	-225.0	-113.8	-356.5
7	-272.8	177.2	-444.9	42.8	376.8	-117.7	-44.3	-98.1
8	30.8	63.9	39.5	35.2	5.6	-102.8	57.6	-11.0
9	-31.0	72.7	-11.9	123.7	77.9	-25.9	80.0	101.1
10	-23.4	5.0	-39.4	-18.5	96.0	-48.1	44.0	-44.9

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK LOAD		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	59.2	254.0	-1812.0	8790.8	3243.6			
1	173.9	92.2	-5326.7	6462.7	-4323.0	5934.4	-4323.0	5950.0
2	110.9	56.4	4453.4	-4637.2	4544.9	-5076.5	3596.4	-4038.5
3	-55.2	5.7	-3330.3	1507.5	-2815.0	697.1	-1471.8	698.1
4	94.3	-48.3	3519.5	5974.2	3564.5	5613.1	3544.6	5173.2
5	11.2	-98.7	-236.2	-515.7	144.5	-287.7	771.2	-329.9
6	-44.1	-62.5	-24.7	-1267.1	-99.9	-856.9	243.0	-721.1
7	-55.9	-27.3	-1040.7	257.6	-948.8	308.6	-143.6	-14.3
8	-17.6	-2.5	-145.0	-170.3	-342.3	-172.7	-407.9	-325.3
9	5.1	4.6	-325.7	495.1	-608.5	268.0	-568.0	187.4
10	4.6	23.7	-36.4	146.5	-116.1	401.8	135.1	504.7

RUN 21 POINT 23
SWEEP/TAPERED TIP

V/D R = 0.377 ALFS,U = 0.0 CLR/S = 0.09473 CP/S = 0.004593
MAT = 0.395 TPETA = 11.5 CXR/S = 0.00J01 RHO = 0.002179

NORMAL BENDING MOMENT PITCH LINK EDGEWISE BENDING MOMENT

	.3K	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	647.	-7615.	1406.	-1344.	323.	-4305.	6214.	4620.
11.25	2556.	-7511.	1091.	-803.	282.	183.	10767.	7193.
22.50	2883.	-7417.	1563.	818.	472.	1677.	11152.	5723.
33.75	1523.	-7762.	2867.	2703.	687.	-876.	6755.	1831.
45.00	194.	-7878.	3132.	3030.	616.	-4742.	2544.	-1509.
56.25	-156.	-7439.	2005.	1412.	368.	-7986.	789.	-3123.
67.50	53.	-6565.	477.	-697.	313.	-8397.	2109.	-1660.
78.75	86.	-5515.	-820.	-2050.	393.	-4339.	6782.	2545.
90.00	-520.	-4993.	-1373.	-2724.	314.	1847.	12593.	7529.
101.25	-1474.	-5125.	-1289.	-3307.	148.	6758.	17368.	12303.
112.50	-1588.	-780.	-1617.	-3842.	60.	9422.	20151.	14751.
123.75	-2182.	-3752.	-2445.	-4115.	-12.	9181.	19648.	13050.
135.00	-2935.	-3373.	-2857.	-4376.	-49.	6126.	16951.	10245.
146.25	-3532.	-3767.	-2862.	-4778.	36.	4346.	16123.	9760.
157.50	-3757.	-3385.	-3106.	-4974.	138.	7971.	19176.	11211.
168.75	-2358.	-2545.	-3575.	-5076.	171.	14223.	24069.	13923.
180.00	-957.	-2653.	-3709.	-5386.	172.	16215.	26471.	16090.
191.25	-484.	-3638.	-2833.	-5080.	97.	11896.	23193.	14210.
202.50	-470.	-5425.	-597.	-3330.	-53.	4765.	16114.	9033.
213.75	-135.	-6486.	668.	-780.	-154.	-3260.	8485.	2866.
225.00	557.	-7195.	1760.	1734.	-218.	-12658.	-413.	-5534.
236.25	1165.	-7999.	3080.	3900.	-311.	-20502.	-9013.	-13219.
247.50	1616.	-9049.	4377.	5021.	-342.	-21827.	-10762.	-13380.
258.75	2107.	-9683.	4584.	4880.	-256.	-16274.	-4888.	-7930.
270.00	2678.	-9364.	4013.	4423.	-105.	-7507.	2775.	-2718.
281.25	2593.	-8701.	3485.	3855.	43.	86.	9164.	2625.
292.50	1735.	-8410.	2902.	2560.	10.	1365.	11568.	5792.
303.75	689.	-8030.	2074.	1143.	-266.	-4669.	6758.	1134.
315.00	95.	-6848.	974.	517.	-399.	-10632.	452.	-6038.
326.25	-243.	-5532.	-194.	126.	-88.	-10639.	614.	-6403.
337.50	-765.	-5514.	-340.	-602.	336.	-8312.	3556.	-2258.
348.75	-787.	-6742.	775.	-1203.	449.	-7120.	4098.	1130.

RUN 48 POINT 10
SWEEP TIP

V/OR = 0.200 ALFS,U = -2.5 CLR/S = 0.07249 CP/S = 0.002817
MAT = 0.717 THETA = 8.0 CXR/S = 0.00193 RHO = 0.002259

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	344.2				-6787.9		873.1		10771.2			
1	305.2	-723.7	-219.5	1019.1	183.5	-1208.1	440.5	-1525.7				
2	-157.4	164.7	482.8	-142.7	-724.7	125.8	-1497.5	-46.6				
3	-140.3	206.4	263.8	-510.8	-348.3	773.1	-330.0	1268.7				
4	-270.6	-75.8	116.1	-73.6	-31.5	93.3	108.2	139.0				
5	12.2	104.5	-38.3	-62.6	44.8	-28.6	-50.3	-196.2				
6	-61.4	144.5	-70.1	39.2	139.0	-133.6	280.3	-101.5				
7	72.0	149.9	72.1	167.1	-95.0	-195.3	-67.1	-138.7				
8	-3.2	155.5	-37.0	216.4	-76.9	-197.1	-226.2	53.1				
9	37.6	3.3	17.1	26.8	16.2	-18.9	84.2	248.8				
10	27.7	-17.2	33.2	-10.3	165.2	58.2	245.1	170.5				

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	48.0				-4444.9		4158.7		2609.2			
1	78.5	156.6	-902.5	4676.2	-815.3	4237.9	-825.5	3296.3				
2	52.5	24.7	2006.8	-630.9	2326.2	-646.2	2815.4	-472.5				
3	11.6	-24.8	-977.1	-705.8	-670.6	-1289.3	-612.7	-1617.2				
4	-30.7	-55.5	-797.4	1615.8	-856.5	1507.5	-965.6	1263.1				
5	-15.8	-14.8	-2225.6	734.3	-2002.3	824.3	-1555.7	1059.9				
6	-21.2	-13.3	-124.3	311.8	-216.0	468.5	-146.0	318.5				
7	10.6	-1.8	91.6	586.9	70.8	655.6	-108.9	252.6				
8	3.0	7.4	-37.9	371.4	144.1	328.3	207.9	-161.2				
9	4.0	3.2	63.3	-30.7	4.0	-40.0	23.9	-137.2				
10	7.4	-0.1	169.8	-121.0	-345.5	-266.8	-446.0	-203.3				

RUN 48 POINT 10
SWEEP TIP

V/CR = 0.200 ALFS,U = -2.5 CLR/S = 0.07249 CP/S = 0.002817
MAT = 0.717 IPETA = 8.0 CXR/S = 0.00193 RHC = 0.002255

PSI	NORMAL BENDING MOMENT			PITCH LINK LOAD	EDGEWISE BENDING MOMENT			
	.5R	.6R	.7R		.5R	.6R	.7R	
0.00	100.	-6102.	145.	9758.	144.	-7183.	1798.	992.
11.25	707.	-6140.	-128.	10127.	120.	-3070.	6028.	3826.
22.50	678.	-6814.	519.	10023.	152.	14.	8773.	6677.
33.75	474.	-7280.	1548.	10895.	257.	475.	7717.	6051.
45.00	512.	-7091.	1271.	11486.	326.	-1158.	6154.	3837.
56.25	601.	-6505.	446.	10851.	305.	-2966.	5257.	2133.
67.50	275.	-6176.	437.	10306.	249.	-4236.	3693.	1226.
78.75	-395.	-6214.	214.	9807.	209.	-4375.	3949.	2563.
90.00	-791.	-5888.	-648.	9023.	193.	-1834.	7337.	5212.
101.25	-730.	-5261.	-756.	9266.	179.	1619.	9893.	6145.
112.50	-770.	-5394.	-210.	10194.	131.	2403.	9724.	5995.
123.75	-701.	-6068.	-48.	10215.	89.	-197.	8342.	5750.
135.00	-262.	-6182.	99.	9850.	108.	-2508.	6185.	4052.
146.25	185.	-6005.	255.	9816.	137.	-2984.	4821.	2845.
157.50	123.	-6209.	242.	9628.	105.	-1950.	6257.	4735.
168.75	-250.	-6359.	390.	9532.	35.	-112.	8275.	6937.
180.00	-407.	-6304.	543.	9603.	-26.	726.	8624.	7158.
191.25	-195.	-6243.	165.	9222.	-61.	-561.	8142.	6774.
202.50	152.	-6308.	19.	8938.	-63.	-3095.	6481.	5540.
213.75	430.	-6607.	552.	9234.	-62.	-5921.	3480.	3280.
225.00	718.	-7188.	1019.	9839.	-87.	-8339.	1401.	1740.
236.25	1051.	-7646.	1615.	11520.	-110.	-9735.	-93.	-219.
247.50	1209.	-7952.	2638.	13621.	-126.	-10872.	-2637.	-3699.
258.75	1217.	-8360.	3066.	14418.	-173.	-12290.	-4150.	-5755.
270.00	1314.	-8542.	3019.	14229.	-230.	-12832.	-3974.	-5956.
281.25	1287.	-8522.	3598.	15381.	-259.	-12156.	-4274.	-6112.
292.50	1027.	-8781.	3845.	15391.	-262.	-10476.	-2890.	-3555.
303.75	1102.	-8599.	2571.	12615.	-191.	-6784.	2470.	2303.
315.00	1479.	-7303.	961.	10573.	-20.	-2734.	6857.	5501.
326.25	1141.	-6245.	213.	10410.	133.	-2934.	6112.	4192.
337.50	87.	-6372.	110.	9678.	174.	-7050.	2715.	2290.
348.75	-368.	-6508.	257.	9028.	162.	-9326.	562.	1033.

RUN 48 POINT 7
SWEEP TIP

V/CR = 0.199 ALPS,U = -5.0 CLR/S = 0.11791 CP/S = 0.006936
MAT = 0.720 TETA = 13.0 CXR/S = 0.00814 RHO = 0.002255

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN
0	963.8			-7271.2			1497.8			9947.6		
1	437.4	-687.7		-184.0	1096.5		-20.0	-1333.6		404.0	-1825.9	
2	77.4	103.1		235.7	76.6		-487.0	-153.7		-1605.5	-646.8	
3	-536.0	250.2		602.6	-382.1		-765.5	628.8		-1071.5	1372.7	
4	-223.6	-253.3		192.3	21.7		-111.9	84.1		246.0	254.5	
5	-42.0	165.6		-90.5	-53.6		89.8	-21.9		90.1	-310.2	
6	-150.1	-88.4		-140.4	-102.8		283.8	62.9		249.1	161.3	
7	55.7	69.6		137.2	68.1		-108.6	-56.4		162.3	-225.8	
8	-109.9	21.6		-210.2	17.4		8.5	-80.4		-526.4	-107.9	
9	-4.8	7.4		-33.2	-10.6		44.8	-58.1		-4.8	217.2	
10	12.7	11.6		34.6	74.5		138.5	153.4		347.1	-0.8	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5R			.6R			.7R		
	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN
0	-168.6			-5164.8			2959.8			1853.1		
1	111.6	111.7		-196.6	5530.0		131.7	4979.0		17.8	3847.5	
2	204.3	-124.7		1963.6	-20.5		2175.4	-10.8		3140.5	485.0	
3	175.0	101.1		-992.4	-1106.3		-449.8	-1071.5		-581.9	-2229.4	
4	-64.0	118.5		-647.7	2135.0		-758.5	1803.2		-1026.0	1451.0	
5	-173.5	23.3		-1734.4	-1330.2		-1415.3	-1067.4		-1141.4	-575.1	
6	-139.3	-185.1		-717.1	-355.7		-914.8	-324.0		-555.7	-232.9	
7	76.9	-92.3		37.3	382.3		-36.4	324.6		-342.8	248.4	
8	124.2	58.8		-395.4	123.7		43.2	208.8		446.0	67.6	
9	-24.5	136.1		-148.7	18.4		-238.7	150.2		-50.5	99.4	
10	-134.0	40.6		163.2	87.2		-268.4	-378.6		-414.6	-293.0	

RUN 48 POINT 7 SWEEP TIP

V/DI = 0.199 ALFS,U = -5.0 CLR/S = 0.11791 CP/S = 0.006936
 MAT = 0.720 THETA = 13.0 CXR/S = 0.00814 RHO = 0.002259

PSI	NORMAL BENDING MOMENT			PITCH LINK			EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD		.5R	.6R	.7R
0.00	475.	-6629.	530.	8238.	-3.		-7831.	1189.	1385.
11.25	803.	-6557.	474.	8302.	254.		-4960.	3621.	3026.
22.50	1273.	-6808.	522.	8725.	167.		-971.	7319.	5723.
33.75	1545.	-7104.	1261.	9521.	231.		1351.	8278.	6519.
45.00	1593.	-7350.	1480.	9669.	542.		1032.	7921.	6189.
56.25	1436.	-7289.	1127.	9832.	-241.		-985.	6817.	4614.
67.50	1006.	-6904.	1220.	10099.	-1470.		-3354.	3843.	1880.
78.75	365.	-6622.	808.	8954.	-1021.		-4576.	2980.	1830.
90.00	-104.	-6183.	-517.	7611.	232.		-2677.	6614.	4495.
101.25	-373.	-5318.	-809.	8126.	279.		1425.	9453.	5289.
112.50	-693.	-5209.	119.	8958.	-120.		3057.	9860.	4731.
123.75	-911.	-6324.	597.	8862.	58.		259.	7619.	5002.
135.00	-370.	-7023.	769.	9105.	108.		-3234.	5617.	3433.
146.25	796.	-6716.	1171.	9536.	-55.		-4844.	2682.	483.
157.50	1524.	-6721.	1273.	9335.	41.		-4996.	2160.	862.
168.75	1232.	-7272.	1507.	9180.	-26.		-3825.	3943.	3755.
180.00	581.	-7471.	2100.	9078.	-330.		-1762.	5206.	5583.
191.25	409.	-7226.	1829.	9845.	-384.		-572.	6362.	6591.
202.50	720.	-5515.	994.	8932.	-357.		-1390.	6944.	6658.
213.75	572.	-6905.	1068.	8236.	-383.		-4694.	4284.	4599.
225.00	966.	-7489.	1610.	7063.	-281.		-10012.	-454.	1392.
236.25	1033.	-8000.	1924.	8870.	-340.		-14164.	-4245.	-2659.
247.50	1304.	-7901.	2531.	12709.	-542.		-14673.	-6303.	-6931.
258.75	1499.	-8081.	3156.	13989.	-429.		-13406.	-5956.	-7978.
270.00	1565.	-8876.	3451.	13742.	-293.		-12562.	-4204.	-6210.
281.25	1736.	-9268.	4125.	15502.	-433.		-11851.	-3921.	-5862.
292.50	1957.	-9223.	4659.	16299.	-426.		-11184.	-4231.	-5519.
303.75	2062.	-9300.	3913.	13627.	-299.		-10199.	-1817.	-1811.
315.00	2128.	-8834.	2574.	10863.	-251.		-7436.	2112.	2448.
326.25	2042.	-7615.	1499.	9706.	42.		-4378.	4580.	4204.
337.50	1498.	-6803.	597.	8675.	285.		-4594.	4767.	4173.
348.75	754.	-6657.	316.	8076.	50.		-7217.	2718.	2689.

RUN 49 POINT 5
SWEPT TIP

V/OR = 0.300 ALFS,J = -5.0 CLR/S = 0.07459 CP/S = 0.004353
MAT = 0.781 TETA = 10.0 CRR/S = 0.000553 RHO = 0.002277

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS
0	151.7		-6654.7				650.6			5354.4		
1	82.4	-1081.5	-1057.7	1403.6		1333.2	-1633.1			1430.7	-2212.3	
2	-152.7	779.6	443.4	-585.2		-701.4	615.2			-1048.0	747.1	
3	267.0	111.0	-253.4	-355.6		277.2	576.0			171.7	744.2	
4	33.4	133.5	16.2	-5.6		-140.3	12.4			-214.1	75.5	
5	144.0	-55.4	12.8	-47.8		-86.5	32.1			-275.7	40.4	
6	-3.0	49.1	5.4	4.5		-59.3	-10.5			28.9	-77.2	
7	-128.9	-139.0	-98.8	-222.0		103.4	188.2			4.8	-50.6	
8	17.2	-42.0	34.2	-65.5		-24.7	82.2			17.5	2.9	
9	-42.2	-3.4	-49.2	-31.4		-6.0	6.9			-61.8	-36.4	
10	-18.5	4.1	-17.2	-20.5		-51.5	-22.0			-85.7	-61.5	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			LOAD			.6R			.7R		
	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS
0	65.3		-4273.7				4842.0			3044.4		
1	135.8	161.1	-3319.9	5433.7		-4119.1	5047.0			-3481.2	4101.3	
2	38.6	45.9	1442.0	-1390.3		1864.4	-1393.0			1835.6	-1301.6	
3	-39.1	10.6	-1196.9	111.9		-1022.7	-343.2			-669.5	-265.0	
4	14.8	30.0	-53.9	959.3		271.6	824.1			363.9	574.7	
5	-4.5	12.8	519.3	-885.1		588.2	-738.0			702.0	-610.9	
6	-0.8	-6.6	-24.6	-510.1		155.9	-437.3			-44.1	-254.2	
7	-1.7	-15.4	-359.8	-293.0		-342.6	-248.2			13.9	235.2	
8	-0.1	-4.8	182.4	-201.6		211.2	-287.4			94.3	-121.0	
9	3.2	-4.4	-224.9	-25.0		-169.8	22.5			-136.6	35.7	
10	4.2	-3.7	-115.5	42.4		59.9	209.5			91.3	352.6	

RUN 49 POINT 5
SWEEP TIP

V/CR = 0.300 ALPS, U = 0.0 CLK/S = 0.07459 CP/S = 0.004353
MAT = 0.781 TELFA = 10.0 CXR/S = 0.00553 RHO = 0.002277

NORMAL BENDING MOMENT PITCH LINK EDGEWISE BENDING MOMENT

	3P	5K	6R	7R	LOAD	5R	6R	7R
PSI								
0.00	1134.	-7639.	1295.	5323.	215.	-7426.	2340.	1814.
11.25	1278.	-8012.	1928.	5821.	259.	-7347.	1707.	1683.
22.50	1401.	-7645.	2000.	6644.	341.	-5673.	2058.	649.
33.75	1120.	-7234.	1576.	6770.	393.	-3734.	3749.	1040.
45.00	532.	-7052.	1348.	6343.	348.	-2420.	5107.	2512.
56.25	20.	-6778.	1039.	5547.	277.	-2139.	5369.	3285.
67.50	-215.	-6230.	07.	4270.	254.	-2301.	6134.	4052.
78.75	-330.	-5518.	-857.	3370.	243.	-1732.	7529.	4945.
90.00	-692.	-5074.	-1061.	3369.	212.	-742.	8168.	5176.
101.25	-1283.	-5164.	-940.	3389.	162.	-13.	8759.	6072.
112.50	-1548.	-5239.	-1049.	3075.	87.	1288.	10449.	7936.
123.75	-1339.	-4823.	-1355.	2905.	19.	3195.	12137.	8850.
135.00	-1279.	-4455.	-1013.	2728.	-6.	3819.	12535.	9045.
146.25	-1704.	-4651.	-1596.	2403.	-7.	2639.	11822.	9538.
157.50	-2068.	-4951.	-1473.	2367.	-2.	1523.	11193.	9454.
168.75	-1762.	-4891.	-1688.	2581.	17.	1606.	11797.	9030.
180.00	-997.	-4746.	-1948.	2784.	29.	1739.	12470.	8957.
191.25	-246.	-5042.	-1534.	3165.	8.	483.	10583.	7965.
202.50	297.	-5870.	-574.	3813.	-39.	-1830.	8258.	6231.
213.75	613.	-6791.	416.	4815.	-100.	-4252.	6141.	4764.
225.00	1288.	-7450.	1392.	6355.	-149.	-7330.	2964.	1648.
236.25	1518.	-8014.	2291.	7864.	-165.	-11239.	-1458.	-2901.
247.50	1543.	-8606.	2961.	8698.	-172.	-13516.	-3736.	-4529.
258.75	1550.	-8962.	3491.	9387.	-176.	-12508.	-3057.	-3014.
270.00	1526.	-8953.	3650.	9157.	-136.	-10152.	-1678.	-1936.
281.25	1464.	-8633.	3116.	8663.	-61.	-8463.	-132.	-1371.
292.50	1283.	-8024.	2373.	8116.	-6.	-7771.	1014.	-717.
303.75	760.	-7370.	2068.	7735.	11.	-8630.	53.	-1396.
315.00	161.	-7586.	1933.	6919.	10.	-10218.	-1480.	-2105.
326.25	150.	-7467.	1553.	6007.	11.	-9724.	-613.	-883.
337.50	693.	-6345.	1077.	5719.	62.	-7370.	1637.	525.
348.75	1071.	-6924.	896.	5543.	154.	-6521.	2686.	1105.

RUN 43 POINT 11
SWEEP TIP

V/CX = 0.295 ALFS,U = -10.0 CLR/S = 0.07207 CP/S = 0.006431
MAT = 0.730 CH TA = 12.0 CX3/S = 0.01262 RHO = 0.002265

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	522.6		-7033.1		1123.9		10443.6	
1	837.6	-781.4	-915.8	1195.4	1125.3	-1416.4	1146.6	-1914.0
2	-53.5	563.3	321.4	-389.3	-541.4	358.9	-946.0	338.5
3	19.1	243.0	13.4	-395.1	-9.3	585.8	85.9	709.6
4	73.5	192.1	43.0	-3.0	-143.9	-25.4	-312.5	61.1
5	86.2	38.2	1.2	-20.1	-53.2	-25.2	-33.1	-172.4
6	2.8	39.1	30.8	27.5	-51.5	-27.0	63.7	28.1
7	-127.5	-43.9	-113.1	-71.6	120.5	49.3	51.1	-25.4
8	-30.4	-6.1	-18.6	-11.8	19.6	9.6	50.2	36.2
9	-0.4	15.6	-7.6	-6.4	-33.7	-22.2	-21.7	-27.3
10	-0.4	0.4	3.5	-7.3	-15.6	-15.6	16.0	-41.5

BLADE EDGEWISE BENDING MOMENT

	PITCH LINK		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	24.3		-4903.0		4143.3		2230.7	
1	170.7	184.4	-2030.4	5101.4	-2924.3	4747.9	-2559.3	3891.0
2	54.8	55.0	900.5	-1012.2	1317.2	-917.0	1524.1	-731.1
3	-45.0	35.3	-817.4	-44.2	-634.6	-523.7	-479.1	-376.6
4	9.0	13.8	463.2	1680.3	641.6	1595.3	717.1	1240.8
5	-27.5	13.5	203.6	-1852.2	316.5	-1594.5	378.5	-1238.5
6	4.4	3.1	-83.5	-306.8	-36.3	-277.7	-186.0	-279.8
7	-4.3	-5.4	-310.3	-109.3	-306.5	-71.6	57.3	39.9
8	-0.5	1.1	-103.0	-32.3	-101.7	-54.5	-113.4	-12.9
9	-0.3	-7.7	48.9	7.9	137.3	74.7	108.7	63.8
10	1.2	-0.0	-0.0	36.0	38.6	124.1	-8.0	183.3

RUN 45 POINT 11
SWEEP TIP

V/C R = 0.299 ALFS,U = -10.0 CLR/S = 0.07207 CP/S = 0.006431
MAT = 0.780 THETA = 12.0 CXR/S = 0.01202 RHO = 0.002269

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1379.	-7702.	1541.	10544.	187.	-6682.	2551.	1671.
11.25	1756.	-7848.	1751.	10581.	286.	-6595.	2375.	1487.
22.50	1553.	-7156.	1572.	10860.	386.	-5270.	2736.	1097.
33.75	1593.	-7687.	2040.	11155.	424.	-3426.	4099.	1810.
45.00	962.	-7617.	1542.	11139.	379.	-2321.	5140.	2889.
56.25	505.	-7228.	1504.	10675.	310.	-2247.	5244.	2960.
67.50	324.	-6553.	609.	8692.	254.	-2492.	5670.	2984.
78.75	126.	-5588.	-227.	8640.	193.	-2531.	6526.	3718.
90.00	-301.	-5729.	-495.	8250.	133.	-1949.	7187.	4557.
101.25	-748.	-5622.	498.	8411.	88.	-159.	8703.	5920.
112.50	-606.	-5476.	-647.	8601.	33.	2160.	11085.	7656.
123.75	-821.	-5308.	-751.	8840.	-32.	2930.	11811.	7859.
135.00	-856.	-5320.	-601.	9012.	-62.	1320.	10095.	6667.
146.25	-1035.	-5569.	-408.	8648.	-52.	-1165.	8048.	6061.
157.50	-1063.	-5769.	-421.	8005.	-34.	-2627.	7222.	5996.
168.75	-789.	-5701.	-621.	7804.	-12.	-2293.	7821.	5912.
180.00	-369.	-5604.	-753.	8086.	0.	-771.	9414.	6659.
191.25	2.	-5831.	-556.	8546.	-50.	81.	10363.	7660.
202.50	256.	3374.	6.	9176.	-157.	-1493.	8947.	6814.
213.75	589.	-6960.	704.	10012.	-237.	-5415.	5221.	3636.
225.00	925.	-7421.	1374.	11012.	-247.	-9956.	629.	-624.
236.25	1217.	-7649.	2046.	12088.	-230.	-13161.	-2959.	-4066.
247.50	1342.	-8378.	2813.	13001.	-220.	-13778.	-4103.	-4896.
258.75	1362.	-8265.	3512.	13592.	-209.	-11807.	-2847.	-3389.
270.00	1555.	-5000.	3711.	13845.	-187.	-8770.	-460.	-1549.
281.25	1767.	-8765.	3358.	13670.	-156.	-7006.	1253.	-658.
292.50	1628.	-8444.	2984.	13181.	-108.	-7876.	610.	-1227.
303.75	1090.	-8261.	2799.	12680.	-51.	-10129.	-1630.	-2850.
315.00	644.	-8021.	2435.	12063.	-13.	-10920.	-2265.	-3331.
326.25	627.	-7647.	1871.	11220.	7.	-9231.	-316.	-1622.
337.50	840.	-7347.	1518.	10632.	43.	-7025.	1795.	329.
348.75	1059.	-7401.	1458.	10536.	108.	-6294.	2583.	1252.

RUN 49 POINT 21
SWEEP TIP

V/JR = 0.301 ALFS,U = 0.0 CLR/S = 0.11589 CP/S = 0.004656
MAI = 0.778 IATA = 12.0 CRR/S = -0.00011 RHD = 0.002252

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	LJAC	COS	SIN	LJAC	COS	SIN	LJAC	COS	SIN	LJAC
0	497.5			-6654.8			677.4			13180.9		
1	1051.6	-1135.5		-1357.5	1596.7		1584.8	-1907.9		996.3	-3979.0	
2	-265.4	873.4		728.6	-535.0		-1095.1	591.0		-1783.3	705.8	
3	244.5	72.0		-133.9	-462.9		194.0	669.2		54.5	1177.2	
4	204.6	2.2		-27.4	74.7		-241.9	96.6		-352.8	608.5	
5	197.4	-175.0		-116.3	-10.7		-51.0	91.8		-543.0	142.9	
6	166.6	25.3		22.4	-13.8		-131.0	86.3		37.2	111.9	
7	-183.2	-292.2		-213.0	-409.6		125.5	395.0		-48.0	-164.7	
8	181.6	-132.2		271.4	-179.1		-187.9	224.5		75.3	-266.3	
9	7.8	-68.1		42.5	-132.3		-31.7	125.9		207.3	65.2	
10	8.5	-2.6		-15.5	-176.7		-199.8	-81.2		-228.2	-252.0	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	.5R			.6R			.7R		
	COS	SIN	LJAC	COS	SIN	LJAC	COS	SIN	LJAC
0	43.3			-3904.7			5668.8		
1	172.0	277.3		-5203.9	6756.6		-5756.7	6096.5	
2	112.2	100.7		3155.1	-1609.4		3663.3	-1606.3	
3	-34.3	4.3		-1542.4	214.0		-1220.0	-401.5	
4	5.0	12.0		155.8	308.3		810.4	2179.8	
5	-25.1	14.4		-1901.8	794.5		-1462.3	566.3	
6	-44.5	-15.8		-30.4	-325.6		356.0	-502.3	
7	-32.7	-22.5		-584.2	-339.1		-304.5	-736.5	
8	11.5	9.9		615.5	-571.2		438.6	-825.0	
9	10.7	6.1		-100.8	-309.3		-173.6	-369.4	
10	2.4	-19.7		-12.5	-258.4		518.9	66.0	

RUN 49 POINT 21
SWEPT TIP

V/CR = 0.301 ALFS₀U = 0.0 CLR/S = 0.11589 CP/S = 0.004656
 MAT = 0.776 TETA = 12.0 CXR/S = -0.00010 RHC = 0.002252

PSI	NORMAL BENDING MOMENT			PITCH 1:		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	3.	-7524.	643.	11600.	221.	-5354.	2541.	2968.
11.25	1382.	-8506.	2349.	12260.	227.	-6892.	2118.	3536.
22.50	1215.	-7695.	2505.	13952.	514.	-1054.	5404.	3809.
33.75	1474.	-6583.	1177.	14452.	604.	1674.	8677.	3779.
45.00	1125.	-5847.	1110.	13198.	503.	-2156.	5632.	2123.
56.25	511.	-7403.	1586.	11274.	358.	-6983.	1286.	837.
67.50	453.	-6330.	384.	9750.	290.	-7456.	2525.	2135.
78.75	589.	-5518.	-1044.	9654.	303.	-304.	6458.	3786.
90.00	-125.	-4800.	-1081.	10098.	306.	14.	9811.	5484.
101.25	-1249.	-5120.	-930.	9755.	178.	4387.	13025.	8574.
112.50	-1663.	-5271.	-1184.	9918.	-1.	4990.	14448.	10895.
123.75	-1302.	-4424.	-1437.	10893.	-35.	5213.	13443.	9177.
135.00	-1229.	-3854.	-1509.	10189.	15.	4466.	12735.	8461.
146.25	-1941.	-4475.	-2033.	8660.	-2.	2557.	12665.	10396.
157.50	-2450.	-4573.	-1703.	9217.	-8.	3318.	13689.	12317.
168.75	-1757.	-4423.	-2134.	10305.	42.	7455.	17715.	14238.
180.00	-503.	-3868.	-3000.	10276.	35.	6312.	20371.	14922.
191.25	59.	-4336.	-2260.	11120.	-14.	5847.	16407.	11690.
202.50	66.	-5585.	-590.	12730.	-61.	238.	10284.	7644.
213.75	513.	-6672.	330.	13359.	-141.	-4355.	6717.	5200.
225.00	1395.	-7122.	1200.	14712.	-210.	-7897.	2886.	1020.
236.25	1936.	-7679.	2477.	17459.	-235.	-11388.	-1565.	-3443.
247.50	2038.	-3847.	3306.	15000.	-322.	-14440.	-3447.	-3662.
258.75	2125.	-5602.	5903.	15273.	-406.	-15261.	-4127.	-3054.
270.00	2201.	-5452.	4428.	19665.	-325.	-13911.	-5052.	-4658.
281.25	2024.	-9239.	4037.	19246.	-231.	-12295.	-3721.	-4168.
292.50	1654.	-8855.	3116.	18242.	-279.	-10230.	-456.	-1522.
303.75	1392.	-7535.	2698.	17805.	-215.	-7797.	1010.	-1267.
315.00	367.	-7601.	2525.	16353.	-103.	-8190.	-65.	-1922.
326.25	200.	-7912.	2039.	13538.	44.	-11040.	-1468.	-615.
337.50	1174.	-7353.	1087.	12003.	118.	-11040.	-570.	890.
348.75	2300.	-6649.	128.	11853.	174.	-9956.	206.	1838.

RUN 49 POINT 12
SWEEP TIP

V/30 = 0.300 ALFS, U = -10.0 CLR/S = 0.09024 CP/S = 0.008498
MAT = 0.781 IF-1A = 14.0 CXR/S = 0.01588 PHO = 0.002269

BLADE NORMAL BENDING MOMENT

HARMONIC	.3P			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	857.4				-7253.2		1375.3		10496.0			
1	551.8	-820.0	-1040.4	1250.7	1296.2	-1457.4	1008.7	-2439.6				
2	-54.0	643.7	344.5	-355.4	-613.5	250.5	-1155.7	-92.9				
3	-21.3	341.5	111.4	-445.5	-132.2	664.3	-156.3	718.0				
4	101.8	138.6	34.1	22.0	-234.8	-13.6	-481.5	89.1				
5	-63.9	-55.1	21.2	-30.8	65.7	22.7	267.2	-91.9				
6	-4.6	23.6	37.1	27.0	-67.1	-5.3	213.5	88.4				
7	-52.3	-52.2	-68.3	-51.5	80.1	35.3	80.3	-41.1				
8	-35.3	-11.6	-21.7	-8.8	42.5	31.4	175.0	46.9				
9	-8.8	2.7	-6.1	-16.5	-24.4	-17.4	-54.9	22.0				
10	-14.0	-3.9	-11.2	-20.8	3.9	-14.2	-22.2	-24.0				

BLADE EDGEWISE BENDING MOMENT

PITCH LINK

HARMONIC	LOAD			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	1.5				-5138.2		3735.8		2024.1			
1	203.6	226.9	-2820.0	5736.8	-3835.2	5119.9	-3318.1	4210.2				
2	72.5	88.0	942.4	-896.0	1517.4	-620.4	1900.0	-380.0				
3	-67.1	49.0	-896.4	-62.4	-647.2	-609.3	-541.5	-319.0				
4	32.1	5.2	18.4	2340.6	440.5	2127.7	731.6	1442.1				
5	-27.5	-2.0	1234.2	-1865.0	928.9	-1645.7	745.2	-1275.2				
6	3.3	-0.6	18.8	-247.0	118.4	-263.3	-130.7	-321.3				
7	1.0	-4.3	-264.9	-166.9	-261.5	-132.3	31.1	-39.8				
8	1.5	-0.6	-169.9	-35.7	-202.7	-121.4	-193.1	-106.0				
9	3.1	-7.9	42.4	-20.4	120.5	58.3	125.4	74.0				
10	6.9	1.9	-109.0	-35.3	-115.2	30.6	-153.4	120.4				

RUN 49 POINT 12
SWEPT TIP

V/CR = 0.300 ALFS,U = -10.0 CLR/S = 0.09J24 CP/S = 0.008498
MAT = 0.781 TETA = 14.0 CXR/S = 0.01588 RHC = 0.002269

	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3K	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1594.	-7948.	1792.	10330.	230.	-7143.	1800.	1221.
11.25	2017.	-8036.	2050.	10174.	314.	-6729.	1836.	1197.
22.50	2421.	-8034.	2275.	9878.	411.	-5541.	2273.	1015.
33.75	2314.	-8064.	2378.	9961.	450.	-4229.	3155.	1482.
45.00	1759.	-7563.	2283.	10452.	465.	-2963.	4249.	2515.
56.25	1255.	-7513.	1850.	10439.	385.	-2020.	5026.	2863.
67.50	777.	-6844.	1022.	9454.	319.	-1945.	5549.	2903.
78.75	306.	-6292.	169.	8383.	229.	-2317.	6113.	3578.
90.00	-168.	-5906.	-292.	7927.	125.	-2065.	6727.	4315.
101.25	-573.	-5646.	-508.	7809.	54.	-420.	8256.	5336.
112.50	-772.	-5455.	-699.	8070.	-17.	2356.	11021.	7232.
123.75	-803.	-5333.	-618.	8536.	-107.	4206.	12515.	8154.
135.00	-856.	-5413.	-206.	9557.	-140.	3185.	10912.	7151.
146.25	-583.	-5706.	29.	9086.	-102.	246.	8318.	6442.
157.50	-820.	-5528.	-193.	8180.	-59.	-2226.	7351.	6698.
168.75	-380.	-5933.	-577.	7838.	-18.	-2989.	7680.	6649.
180.00	103.	-5883.	-779.	8040.	5.	-1732.	9189.	7136.
191.25	440.	-5588.	-629.	8450.	-58.	349.	11113.	8580.
202.50	555.	-5369.	-60.	9144.	-191.	179.	10659.	8230.
213.75	596.	-6936.	753.	10203.	-300.	-3646.	6703.	4647.
225.00	855.	-7451.	1505.	11362.	-347.	-9059.	1255.	-193.
236.25	1334.	-7934.	2140.	12300.	-341.	-13589.	-3132.	-4062.
247.50	1745.	-8549.	2828.	13022.	-296.	-15700.	-5370.	-5604.
258.75	1540.	-9106.	3558.	13711.	-245.	-14219.	-4661.	-4512.
270.00	2155.	-9337.	+011.	14300.	-220.	-10218.	-1821.	-2421.
281.25	2180.	-9205.	3994.	14629.	-200.	-7224.	516.	-1292.
292.50	1933.	-8700.	3737.	14708.	-182.	-7505.	272.	-1840.
303.75	1472.	-8700.	3470.	14310.	-150.	-10173.	-2172.	-3753.
315.00	1100.	-8405.	3023.	13078.	-100.	-12469.	-4086.	-5076.
326.25	1037.	-8065.	2323.	11456.	-48.	-12005.	-3099.	-3719.
337.50	1324.	-7054.	1753.	10431.	16.	-9365.	-287.	-897.
348.75	1456.	-7598.	1617.	10250.	122.	-7454.	1525.	796.

RUN 49 POINT 26 SHEPI TIP

V/COR = 0.374 ALFS,U = -5.0 CLR/S = J.08085 CP/S = J.005900
 MAT = J.829 IFFIA = J.00507 CRR/S = J.00507 RHO = J.032228

BLADE NORMAL BENDING MOMENT

HARMONIC	3R			.5R			.6R			.7R		
	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN
0	307.5			-6630.4			736.3			25561.8		
1	1176.3	-1381.5		-1474.3	1603.6		1740.6	-2024.4		-667.2	-2263.9	
2	-252.5	1431.4		574.9	-1393.6		-698.6	1717.8		1874.7	-1073.1	
3	354.6	48.0		-775.9	-402.0		544.9	648.1		1359.1	1126.3	
4	578.5	601.8		13.6	-121.2		-311.0	5.6		-450.0	975.9	
5	-58.2	-245.7		-135.4	-10.9		-16.7	162.5		-844.9	12.6	
6	110.7	187.6		65.1	52.9		-80.4	-99.8		-336.3	-295.0	
7	-233.6	146.6		-460.0	120.6		410.6	-152.8		-26.0	-286.3	
8	57.9	1.0		131.1	-2.9		-22.7	1.2		469.9	-174.9	
9	-10.4	34.9		-16.7	106.8		-3.4	-16.5		327.1	196.4	
10	-41.7	13.6		-12.7	-41.2		-7.9	-61.2		-243.0	185.0	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5R			.6R			.7R		
	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN
0	35.9			-3525.0			5550.1			2990.5		
1	232.7	127.2		-4310.2	5759.7		-5204.8	5857.5		-4215.6	5132.7	
2	1.3	76.5		1697.4	-4001.5		1843.4	-4553.6		1532.8	-3701.1	
3	-53.9	-23.4		-1231.4	131.3		-1384.0	684.6		-1040.4	266.2	
4	83.5	55.5		1487.6	1495.4		1923.3	1526.7		2222.0	1572.0	
5	-7.7	-11.5		167.1	1218.2		392.6	828.0		857.1	379.0	
6	-11.1	-9.5		386.2	-574.7		349.5	-455.1		290.0	-339.3	
7	-37.4	16.9		-994.7	413.7		-909.6	508.9		86.1	173.8	
8	1.8	1.6		193.1	-162.8		-43.2	-234.0		-272.3	-252.9	
9	-8.0	-7.9		166.8	415.4		261.8	269.2		295.6	11.5	
10	0.0	-11.7		-273.3	-68.0		-148.4	100.6		-12.5	213.7	

RUR 49 POINT 26
SWEPT TIP

V/C = 0.374 ALTITUDE = -5.0 CLAS = 0.0035 CP/J = 0.005900
MAT = 0.625 TFLTA = 12.0 CXK/S = 0.0007 RHJ = 0.002228

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3K	.5R	.6R	.7R	LCAD	.5R	.6R	.7R
0.00	1759.	-8761.	2692.	27031.	202.	-6246.	2631.	2733.
11.25	2778.	-8583.	2856.	26988.	291.	-3573.	4341.	2461.
22.50	2657.	-3319.	3042.	26650.	401.	-3474.	3462.	363.
33.75	1546.	-8325.	3140.	26725.	384.	-5566.	1297.	-1234.
45.00	594.	-7738.	2652.	24798.	295.	-7034.	73.	-1798.
56.25	190.	-7017.	1371.	19380.	314.	-7092.	724.	-941.
67.50	114.	-6105.	-312.	15900.	371.	-5222.	4157.	2434.
78.75	10.	-5302.	-1314.	18140.	325.	-1143.	8667.	6340.
90.00	-585.	-5052.	-1184.	21391.	237.	1984.	11147.	8213.
101.25	-1335.	-5366.	-1110.	22690.	146.	2653.	12134.	9694.
112.50	-1391.	-4933.	-1520.	24866.	-2.	4225.	14775.	11607.
123.75	-1369.	-3693.	-2681.	27323.	-158.	6491.	16414.	11267.
135.00	-2636.	-3462.	-2586.	27221.	-261.	5717.	14836.	9660.
146.25	-4148.	-4136.	-2262.	26490.	-322.	4620.	14454.	10752.
157.50	-4044.	-3905.	-2543.	27007.	-270.	7415.	17508.	13183.
168.75	-2237.	-2855.	-3301.	27105.	-89.	9658.	19216.	13018.
180.00	-365.	-3036.	-3460.	26723.	32.	6168.	16319.	10768.
191.25	535.	-4084.	-2141.	20858.	-11.	-193.	10524.	8298.
202.50	757.	-2460.	-2.	26761.	-99.	-5106.	5781.	5065.
213.75	1109.	-7546.	1675.	26474.	-162.	-7969.	2001.	753.
225.00	1546.	-8133.	2910.	26979.	-241.	-9595.	-754.	-3505.
236.25	1778.	-6895.	4231.	27144.	-313.	-11485.	-3661.	-6386.
247.50	1955.	-5833.	5057.	26655.	-310.	-13821.	-5706.	-6844.
258.75	2444.	-5547.	593.	26930.	-186.	-13483.	-4559.	-4982.
270.00	2834.	-5014.	3503.	27181.	5.	-5293.	-375.	-1953.
281.25	2538.	-8148.	2492.	26460.	113.	-5201.	3624.	1068.
292.50	1343.	-7818.	1937.	25955.	62.	-4536.	4462.	2304.
303.75	92.	-7383.	1702.	26458.	-2.	-6382.	2302.	508.
315.00	-307.	-6626.	1122.	26928.	18.	-8300.	219.	-2372.
326.25	132.	-5188.	470.	27045.	73.	-9232.	-10.	-3366.
337.50	567.	-6714.	812.	26892.	128.	-9226.	267.	-2009.
348.75	886.	-7968.	1959.	26769.	170.	-8502.	735.	597.

RUN 45 POINT 32
SWEEP TIP

V/C = 0.370 ALFS,U = -10.0 CLR/S = 0.07127 CP/S = 0.008046
MAT = 0.020 LHA = 14.0 CRR/S = 0.01157 RHD = 0.002212

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	645.4		-7052.6		1222.2		18260.0	
1	1097.6	-1028.7	-1282.0	1295.3	1502.4	-1654.7	2520.4	-8080.2
2	-246.6	1068.7	330.4	-573.9	-513.4	1160.5	1736.3	562.6
3	232.5	259.9	-339.7	-477.3	452.2	738.1	1132.4	-865.6
4	425.7	334.9	40.4	-84.7	-282.7	72.6	-27.6	-740.1
5	-131.4	-74.0	-52.4	-5.0	20.5	49.4	-72.6	600.0
6	61.7	126.9	47.6	13.2	-62.3	-73.4	-48.0	-260.9
7	-247.6	66.4	-249.4	21.8	238.1	-53.7	875.8	1222.9
8	46.9	8.2	93.3	4.8	-41.2	-2.3	267.2	-488.2
9	-6.1	8.0	-4.6	24.5	5.9	31.5	429.0	265.2
10	-16.7	15.2	-21.3	-3.2	-2.2	-5.2	-659.6	-800.0

BLADE EDGEWISE BENDING MOMENT

HARMONIC	.5R		.6R		.7R	
	CCS	SIN	CCS	SIN	CCS	SIN
0	-67.4		-4423.8		4718.2	
1	250.4	123.0	-2634.3	5092.8	-3740.8	5155.9
2	-20.7	117.2	507.9	-2882.0	891.0	-5194.3
3	-87.1	-15.8	-401.0	723.5	-445.3	100.6
4	111.1	14.2	1503.6	2152.7	1839.9	1973.8
5	-48.4	20.4	-103.6	8.7	-72.0	-59.2
6	39.3	-47.8	328.4	-377.9	321.8	-219.2
7	-12.4	38.3	-655.3	214.9	-640.1	273.7
8	-7.4	-54.2	203.6	-50.6	92.0	-74.5
9	8.7	30.3	87.9	43.3	152.2	-84.7
10	-36.6	1.7	-112.2	45.7	-85.6	103.0

RUN 49 POINT 32 SWEEP TIP

V/DR = 0.376 ALPS,U = -10.0 CLR/S = 0.07127 CP/S = 0.002212
 MAT = 0.026 THETA = 14.0 CXR/S = 0.01157 RHO = 0.002212

	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.5R	.5R	.7R	LOAD		.5R	.6R	.7R
PSI								
0.00	1061.	-8476.	2539.	24413.	118.	-5639.	3031.	1922.
11.25	2638.	-8680.	2958.	21636.	214.	-4069.	3954.	2060.
22.50	2761.	-8680.	3181.	18333.	261.	-3896.	3577.	951.
33.75	2090.	-8561.	3282.	14480.	255.	-4911.	2227.	-454.
45.00	1226.	-8188.	2970.	13107.	317.	-6104.	979.	-1435.
56.25	653.	-7538.	1907.	13167.	317.	-6603.	1231.	-953.
67.50	540.	-6558.	455.	10697.	241.	-5299.	3882.	1556.
78.75	387.	-5858.	-532.	8879.	249.	-2236.	7527.	4540.
90.00	-81.	-5561.	-782.	9899.	157.	706.	10160.	6694.
101.25	-622.	-5606.	-339.	9601.	1.	2824.	12360.	8860.
112.50	-829.	-5348.	-1110.	8875.	-52.	4714.	14602.	10531.
123.75	-1024.	-4772.	-1368.	9895.	-201.	5030.	14614.	9579.
135.00	-1723.	-4653.	-1283.	9149.	-557.	2627.	11572.	7221.
146.25	-2458.	-5018.	-1054.	9361.	-694.	210.	10125.	6711.
157.50	-2361.	-4597.	-1165.	15167.	-303.	520.	10898.	7818.
168.75	-1223.	-4524.	-1695.	18324.	14.	2046.	12439.	8479.
180.00	-29.	-4518.	-1894.	14643.	-105.	1774.	12524.	8374.
191.25	420.	-5423.	-1067.	14913.	-269.	-1142.	10026.	7113.
202.50	370.	-6620.	401.	21107.	-287.	-5231.	5576.	3880.
213.75	592.	-7376.	1592.	24002.	-313.	-8368.	1664.	-192.
225.00	1212.	-7804.	2414.	24050.	-335.	-10260.	-783.	-3448.
236.25	1736.	-6481.	3316.	25171.	-312.	-12208.	-3080.	-5548.
247.50	2076.	-9295.	4107.	24951.	-263.	-13433.	-4476.	-5920.
258.75	2483.	-9533.	4216.	24476.	-170.	-11635.	-2749.	-4069.
270.00	2721.	-9058.	3734.	25343.	-105.	-7707.	985.	-1479.
281.25	2321.	-8591.	3233.	22653.	-107.	-5169.	3022.	-120.
292.50	1431.	-6274.	2873.	20536.	-65.	-5486.	2645.	-372.
303.75	634.	-7392.	2336.	24487.	-41.	-7408.	1045.	-1591.
315.00	358.	-7372.	1759.	27914.	-128.	-9158.	-287.	-2802.
326.25	520.	-7046.	1335.	25673.	-124.	-9638.	-489.	-2950.
337.50	755.	-7256.	1367.	24277.	28.	-8908.	305.	-1696.
348.75	1159.	-7904.	1904.	25443.	99.	-7505.	1575.	333.

RUN 49 POINT 40
SWEEP TIP

V/R = 0.377 ALFSU = 0.0 CLR/S = 0.10284 CP/S = 0.005020
MAG = 0.326 TETA = 12.0 CRR/S = 0.00009 RHJ = 0.002200

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS
0	217.2		-6375.0		1765.9		449.3		246.4		2772.0	
1	1458.6	-1434.5	-1611.2	1561.3	-1561.3	2036.1	1811.1	-2199.8	-1845.1	2828.3		
2	-445.0	1523.6	857.1	-532.7	-612.6	866.6	-1033.9	654.3	540.4	1291.7		
3	231.3	285.5	-35.0	-181.2	-384.4	36.3	-384.4	-213.5	-794.5	-321.7		
4	624.9	440.5	-210.0	48.1	25.6	-291.9	-4.4	-213.5	-310.6	-228.1		
5	-28.6	429.8	-38.9	314.8	274.6	-68.7	25.6	-291.9	-203.1	-365.1		
6	57.0	358.0	-345.8	13.9	-68.8	-12.6	274.6	-368.1	-61.4	-49.2		
7	-276.1	24.5	39.0	180.0	16.5	-87.3	-68.8	-68.7	40.1	203.6		
8	107.2	125.8	30.7	6.4	55.2	-62.4	16.5	-87.3	-111.5	40.0		
9	35.0	14.1	-48.4				55.2	-62.4				
10	-22.7											

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5R			.6R			.7R		
	COS	SIN	LOAD	COS	SIN	CCS	COS	SIN	CCS	COS	SIN	CCS
0	-11.0				6722.7		6944.7		3981.6		5355.8	
1	284.8	215.0		-5233.2	-5417.9	-5888.9	-5888.9	6417.2	-4634.5	2727.8	-4986.8	
2	39.8	80.9		3335.5	1565.4	3261.5	3261.5	-6028.4	2727.8	-4986.8		
3	-24.7	0.3		-2819.9	3056.1	-2576.8	-2576.8	788.1	-1786.9	634.3		
4	70.1	25.9		3054.9	-1262.5	3290.3	3290.3	3017.5	3391.0	2960.4		
5	5.0	-75.7		28.8	-1373.1	534.6	534.6	-646.5	1142.3	-618.8		
6	-75.9	-56.8		-145.1	1055.5	-172.5	-172.5	-874.5	32.1	-770.5		
7	-40.7	-41.3		-761.3	-23.2	-712.3	-712.3	1109.0	-65.6	335.6		
8	-71.0	24.8		-23.2	-185.7	-225.2	-225.2	-186.7	-433.3	-355.4		
9	18.7	-33.0		102.7	726.9	-52.7	-52.7	527.0	-119.1	194.5		
10	-35.1	35.6		-12.4	367.8	59.9	59.9	659.1	302.2	593.8		

RUN 45 PCINT 40
SWEEP TIP

V/OR = 0.377 ALFS,U = J.J CLR/S = 0.10284 CP/S = 0.005020
MAT = 0.826 THETA = 12.0 CXR/S = 0.00009 RHG = 0.002200

	NORMAL BENDING MOMENT			PITCH LINK			EDGEWISE BENDING MOMENT		
	.5R	.5P	.6P	.7R	LOAD	.5K	.6R	.7R	
PS1									
0.00	1945.	-8090.	1792.	260.	160.	-5380.	4467.	4538.	
11.25	3563.	-7881.	1405.	1758.	270.	-3423.	6644.	4479.	
22.50	3525.	-8186.	2333.	3517.	467.	-4618.	4111.	1463.	
33.75	1566.	-8559.	3640.	5092.	502.	-5679.	1215.	-832.	
45.00	173.	-8052.	3434.	5738.	427.	-5333.	814.	-1844.	
56.25	-6.	-7196.	1853.	4021.	315.	-6094.	1192.	-1774.	
67.50	326.	-8231.	-42.	981.	282.	-6052.	3745.	1347.	
78.75	523.	-5207.	-1547.	-912.	309.	-3025.	8228.	5417.	
90.00	-228.	-4707.	-2050.	-1374.	213.	514.	11261.	7839.	
101.25	-1471.	-4658.	-1980.	-3028.	101.	4096.	14386.	11064.	
112.50	-2065.	-4056.	-2429.	-3655.	67.	8422.	18647.	14243.	
123.75	-2375.	-3101.	-3087.	-3706.	-128.	9550.	19184.	13312.	
135.00	-3407.	-3227.	-3091.	-4294.	-327.	6406.	16325.	11305.	
146.25	-4312.	-3724.	-3005.	-4982.	-187.	5568.	16651.	12659.	
157.50	-3593.	-3051.	-3565.	-5080.	-107.	10027.	20619.	14988.	
168.75	-1865.	-2151.	-4127.	-5370.	-346.	13891.	23262.	15919.	
180.00	-795.	-2772.	-3709.	-5701.	-327.	11986.	21855.	15465.	
191.25	-548.	-4481.	-2188.	-4642.	-24.	6078.	16630.	12446.	
202.50	-173.	-5919.	-283.	-2380.	-93.	55.	10342.	7691.	
213.75	646.	-6863.	1232.	234.	-379.	-6064.	4614.	2405.	
225.00	1442.	-7856.	2567.	2785.	-393.	-13990.	-2945.	-5037.	
236.25	1508.	-8565.	4109.	4835.	-378.	-20632.	-10456.	-11621.	
247.50	2247.	-9819.	5055.	5772.	-461.	-20611.	-10907.	-10805.	
258.75	2671.	-9879.	4802.	5713.	-319.	-14344.	-4441.	-5111.	
270.00	2875.	-9235.	3948.	5072.	-62.	-6619.	2460.	-84.	
281.25	2388.	-8657.	3302.	3924.	1.	-1555.	7214.	4480.	
292.50	1416.	-8420.	2601.	2267.	-98.	-2612.	7650.	6105.	
303.75	764.	-7165.	1477.	569.	-285.	-8406.	2742.	1245.	
315.00	590.	-6310.	149.	-117.	-348.	-11021.	-477.	-3745.	
326.25	74.	-5257.	-456.	402.	11.	-8215.	1845.	-2723.	
337.50	-759.	-6030.	440.	650.	421.	-6562.	3152.	288.	
348.75	-388.	-7565.	1754.	83.	360.	-7128.	2248.	2341.	

RUN 23 POINT 32

TAPERED TIP

V/CR = 0.201 ALFS,U = 10.0 CLR/S = 0.11+12 CP/S = -0.000647
 MAT = 0.717 IFFIA = 8.0 CXR/S = -0.02349 RHO = 0.002332

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	-258.6		-5976.0		-91.4		-1341.8	
1	482.7	-1156.2	-623.6	1197.4	640.6	-1181.4	795.0	-1308.0
2	-608.5	107.2	976.7	-114.8	-1342.7	142.8	-1978.8	241.7
3	185.3	-155.3	-145.0	-215.2	166.2	392.6	65.1	756.0
4	-102.7	-271.6	64.9	53.0	76.6	34.2	286.1	254.2
5	77.6	-103.0	36.9	-19.3	-17.7	-27.4	33.5	-98.3
6	75.4	5.4	25.8	-49.3	-35.8	-13.8	9.2	-106.1
7	133.0	63.3	131.6	78.8	-134.3	-95.1	3.1	-9.9
8	-65.2	112.0	-113.5	150.2	75.5	-151.6	-61.4	33.3
9	-22.8	13.5	-38.2	30.3	20.3	-38.5	-23.2	10.6
10	-8.1	-10.1	-4.9	-10.4	-10.8	-4.0	-5.6	-2.3

BLADE EDGEWISE BENDING MOMENT

	PITCH LINK		.5R		.6R		.7R	
	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	224.0		-1581.9		6096.8		28901.2	
1	13.9	179.9	-3496.7	4474.0	-3041.8	3609.8	-2462.2	2569.8
2	36.8	-0.3	3874.8	-953.2	4404.4	-980.1	4334.5	-1115.6
3	56.8	-54.4	-1382.3	-691.0	-1321.3	-1081.3	-505.0	-1411.6
4	8.9	-26.2	748.3	-114.0	310.2	-277.6	-115.9	-620.7
5	8.5	39.5	1126.0	2388.7	945.3	2213.3	781.0	1589.3
6	16.5	12.7	56.3	460.5	59.8	540.4	-31.7	611.5
7	14.0	9.1	619.3	373.3	581.6	406.7	253.6	134.0
8	1.1	7.6	-228.4	449.4	-221.8	430.4	62.6	65.6
9	1.5	4.1	83.5	175.2	131.5	225.2	230.7	110.5
10	0.9	4.9	-36.2	-165.2	-21.9	-213.9	-81.5	-288.7

RUN 23 POINT 32
TAPERED TIP

V/OR = 0.201 ALFS,U = 10.0 CLR/S = 0.11412 CP/S = -0.000547
MAT = 0.717 TETA = 8.0 CXR/S = -0.02349 RHO = 0.002332

NORMAL BENDING MOMENT PITCH LINK EDGEWISE BENDING MOMENT

	.3R	.5R	.6R	.7R	LCAC	.5R	.6R	.7R
PSI								
0.00	-110.	-5666.	-653.	-2219.	423.	-217.	7927.	30967.
11.25	-527.	-5401.	-816.	-1815.	427.	2000.	9672.	31233.
22.50	-1134.	-5714.	-324.	-1466.	305.	-454.	7125.	29369.
33.75	-1374.	-6133.	116.	-1308.	205.	-4458.	3229.	26516.
45.00	-786.	-5854.	-171.	-1172.	211.	-5050.	2543.	25149.
56.25	-90.	-5360.	-584.	-1092.	270.	-2345.	5003.	26458.
67.50	-236.	-5565.	-355.	-1232.	335.	183.	7080.	28767.
78.75	-858.	-5986.	74.	-1383.	402.	1547.	7941.	30441.
90.00	-1041.	-5677.	-95.	-1284.	449.	2399.	8463.	30574.
101.25	-857.	-5059.	-597.	-1184.	461.	1483.	7575.	28653.
112.50	-1039.	-5030.	-713.	-1484.	436.	-1038.	5523.	26970.
123.75	-1362.	-5308.	-632.	-2141.	382.	-1577.	5480.	28375.
135.00	-1436.	-5107.	-1011.	-2819.	335.	1665.	8780.	31802.
146.25	-1372.	-4500.	-1720.	-3332.	316.	6666.	13448.	35132.
157.50	-1535.	-4139.	-2116.	-3700.	282.	9911.	16675.	37650.
168.75	-1842.	-4221.	-2091.	-3941.	215.	9151.	16284.	37685.
180.00	-1621.	-4398.	-2004.	-3966.	154.	5883.	13328.	35171.
191.25	-1284.	-4453.	-1937.	-3618.	124.	3671.	11483.	33459.
202.50	-581.	-4770.	-1586.	-3195.	126.	2513.	10813.	33052.
213.75	-21.	-5611.	-760.	-2500.	164.	-14.	8432.	31358.
225.00	527.	-6606.	291.	-1516.	205.	-3193.	5117.	28979.
236.25	1144.	-7316.	1200.	-218.	205.	-5596.	2725.	26984.
247.50	1525.	-7835.	1974.	1161.	146.	-8571.	-383.	23557.
258.75	1451.	-8276.	2683.	2307.	33.	-11812.	-4125.	19639.
270.00	1265.	-8367.	2995.	3000.	-85.	-12312.	-4977.	18679.
281.25	1063.	-8056.	2691.	2991.	-134.	-9889.	-2532.	20449.
292.50	894.	-7723.	2092.	2040.	-81.	-6921.	703.	23481.
303.75	796.	-7485.	1396.	358.	16.	-4515.	3863.	27665.
315.00	810.	-7050.	521.	-1250.	113.	-3616.	5819.	30389.
326.25	790.	-6461.	-182.	-2121.	185.	-5049.	4841.	25377.
337.50	559.	-6123.	-308.	-2368.	233.	-6481.	3012.	27863.
348.75	204.	-5989.	-305.	-2394.	316.	-4572.	4228.	25505.

RUN 23 POINT 15 TAPERED TIP

V/C R = 0.200 ALFS,U = -2.5 CLR/S = 0.07313 CP/S = 0.002781
 MAT = 0.718 TPEIA = 8.0 CXR/S = 0.00177 RHO = 0.002355

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	-59.0		-6443.7		410.2		-522.8	
1	362.1	-725.7	-394.0	1003.0	466.4	-1147.6	742.1	-1424.1
2	341.6	158.8	653.0	-145.1	-876.3	130.6	-1402.1	55.5
3	-21.0	159.6	184.1	-428.0	-265.4	655.5	-456.1	1076.2
4	-165.1	-53.4	105.4	-55.1	-32.6	62.0	108.0	114.2
5	-46.1	40.8	-4.0	-61.7	49.7	13.6	102.8	-105.4
6	-67.0	55.5	-38.1	-5.6	113.6	-38.7	180.0	-60.4
7	4.5	145.8	-2.3	173.1	-9.6	-187.3	4.9	-23.4
8	-67.8	113.4	-119.0	157.0	16.8	-157.7	-148.6	2.7
9	16.7	39.5	0.3	61.6	-19.7	-44.6	-26.4	42.2
10	20.3	0.2	61.4	24.7	88.1	67.1	170.6	114.6

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK		LOAD		.5R		.6R		.7R	
	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	173.5		-2991.0		4584.6		16411.6			
1	20.6	136.1	-1699.2	4168.0	-1745.0	3799.6	-1641.8	2973.4		
2	30.1	31.7	2040.9	-606.6	2439.1	-574.2	2750.4	-432.6		
3	26.1	-20.5	-544.1	-1005.0	-273.5	-1461.3	-42.0	-1786.8		
4	-11.1	-13.5	-471.5	640.5	-551.3	617.5	-637.8	497.7		
5	1.8	6.3	-1424.9	1363.8	-1386.3	1321.1	-1177.0	1377.3		
6	-2.1	-4.2	-310.0	110.0	-432.4	181.6	-390.1	144.9		
7	-1.6	8.9	69.1	301.0	54.2	310.8	34.5	-92.9		
8	-6.5	9.2	-231.3	289.1	-84.0	266.4	201.7	-63.9		
9	-0.7	0.6	98.5	118.5	151.8	110.9	131.6	-38.4		
10	0.8	1.9	213.5	1.3	-2.5	-198.0	-81.8	-184.7		

RUN 23 POINT 15

TAPERED TIP

V/OR = 0.200 ALFS,U = -2.5 CLR/S = 0.07313 CP/S = 0.002781
 MAT = J.718 TETA = 8.0 CXR/S = J.00177 RHO = 0.002359

	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	-404.	-5957.	-59.	-1248.	231.	-5250.	2755.	17560.
11.25	105.	-5826.	-260.	-921.	274.	-2143.	5465.	18755.
22.50	138.	-6379.	172.	-766.	279.	-351.	7205.	20416.
33.75	-57.	-6944.	972.	-220.	266.	-477.	6552.	20360.
45.00	-51.	-6819.	901.	86.	281.	-2013.	4761.	18211.
56.25	36.	-6264.	269.	-56.	310.	-3237.	3709.	16244.
67.50	-156.	-5942.	144.	-273.	315.	-2910.	3855.	16473.
78.75	-631.	-6008.	29.	-1068.	294.	-1467.	5516.	19059.
90.00	-858.	-5876.	-578.	-2052.	202.	716.	8327.	21889.
101.25	-820.	-5342.	-891.	-1949.	289.	2646.	9882.	22401.
112.50	-780.	-5164.	-729.	-1493.	279.	2132.	8915.	21096.
123.75	-915.	-5574.	-622.	-1773.	241.	-277.	7204.	20206.
135.00	-527.	-5775.	-495.	-1894.	218.	-1201.	6458.	20098.
146.25	-761.	-5548.	-421.	-1612.	222.	187.	7228.	20595.
157.50	-719.	-5432.	-662.	-1808.	210.	1847.	8999.	22039.
168.75	-902.	-5508.	-717.	-2054.	170.	2464.	9585.	23220.
180.00	-1037.	-5565.	-502.	-1982.	139.	1751.	9152.	22948.
191.25	-848.	-5627.	-641.	-2246.	129.	89.	8039.	22184.
202.50	-410.	-5746.	-751.	-2402.	134.	-1569.	7156.	21411.
213.75	-19.	-6089.	-200.	-1852.	147.	-3186.	5350.	20103.
225.00	286.	-6747.	491.	-1183.	151.	-4918.	3435.	18766.
236.25	645.	-7342.	1131.	-147.	123.	-6141.	2190.	17206.
247.50	920.	-7728.	2079.	1606.	65.	-7618.	-93.	14248.
258.75	974.	-8167.	2725.	2734.	6.	-10296.	-3180.	11035.
270.00	1011.	-8351.	2716.	3028.	-28.	-11993.	-4437.	9505.
281.25	1010.	-8221.	2885.	3664.	-32.	-10923.	-3755.	9654.
292.50	725.	-8246.	3129.	3620.	-27.	-8689.	-2132.	11908.
303.75	505.	-8261.	2390.	1760.	-5.	-6033.	1473.	16445.
315.00	725.	-7332.	541.	-126.	62.	-2869.	5513.	19528.
326.25	746.	-6125.	-53.	-893.	146.	-2093.	6090.	19742.
337.50	31.	-5961.	-235.	-1478.	186.	-4921.	3443.	18089.
348.75	-616.	-6254.	-33.	-1732.	196.	-6969.	1646.	17376.

RUN 23 POINT 26
TAPERED TIP

V/OR = 0.155 ΔLFS,U = -5.0 CLR/S = 0.11816 CP/S = 0.006979
MAI = 0.721 ΔLTA = 13.0 CXR/S = 0.00832 RHO = 0.002341

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS
0	846.8		-7135.6		1134.6		1279.8		257.9		-1613.3	
1	462.0	-689.9	-282.6	140.6	368.5	-575.1	159.8	-279.3	-1413.1	-1021.9	1111.9	201.4
2	24.7	46.4	683.2	-368.2	40.6	-833.2	-108.7	39.1	77.8	128.3	-178.7	254.2
3	-524.7	226.5	216.8	-80.9	-166.6	56.1	304.6	149.9	106.4	-243.4	-174.2	-78.9
4	-247.3	-263.4	-74.0	-36.5	-8.9	-16.6	-16.6	16.0	-243.4	-174.2	-78.9	264.0
5	-15.6	68.2	-139.2	-81.3	75.5	59.4	62.5	-75.6	88.9	178.6	178.6	264.0
6	-185.8	-167.2	-252.3	-18.7	-36.5	59.4	62.5	-75.6	88.9	178.6	178.6	264.0
7	24.2	2.8	-81.3	96.7	-36.5	59.4	62.5	-75.6	88.9	178.6	178.6	264.0
8	-149.9	-7.1	46.5	96.7	-36.5	59.4	62.5	-75.6	88.9	178.6	178.6	264.0
9	-26.7	17.0	-46.5	96.7	-36.5	59.4	62.5	-75.6	88.9	178.6	178.6	264.0
10	14.2	34.9										

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5R			.6R			.7R		
	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS
0	143.7		-3746.7		5476.4		3055.8		24226.6		3703.5	
1	77.8	256.7	-483.4	50.9	4866.8	-368.5	2535.2	223.0	-872.2	3757.5	954.1	
2	123.7	105.7	2280.2	-1541.8	-2077.5	-128.0	-1174.1	1570.6	-171.3	-2712.6	1215.7	
3	-6.5	3.1	-648.1	1843.1	-412.9	-1019.6	-2082.8	-389.9	-1458.3	94.7	-243.7	
4	-16.5	-41.6	-1019.6	-629.9	182.8	-884.5	-369.2	182.8	-406.9	-283.2	253.4	
5	-45.3	-11.5	-2486.4	263.3	228.1	-233.0	-64.3	228.1	-492.4	132.3	-269.1	
6	-17.9	15.7	-621.3	12.9	-212.6	-621.3	-212.6	-262.7	-201.2	-231.8		
7	5.6	20.1	-233.0	89.7	-60.2	-233.0	-60.2					
8	-3.6	-7.2	-487.6	257.1		-487.6						
9	0.6	-10.0	-194.8			-194.8						
10	-7.6	2.6	106.9			106.9						

RUN 23 PCINT 26

TAPERED TIP

V/CR = 0.199 ALFS,U = -5.0 CLR/S = 0.11816 CP/S = 0.006979
 MAT = 0.721 T/FETA = 13.0 CXR/S = 0.00832 RHO = 0.002341

NORMAL BENDING MOMENT

PITCH LINK

EDGEWISE BENDING MOMENT

PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	154.	-6575.	458.	-1395.	250.	-7524.	247.	22980.
11.25	369.	-6529.	449.	-1140.	359.	-3758.	3314.	25266.
22.50	999.	-6546.	300.	-912.	479.	972.	7693.	28014.
33.75	1463.	-6861.	859.	-395.	527.	3237.	9014.	29110.
45.00	1565.	-7243.	1345.	49.	519.	2130.	7733.	28279.
56.25	1360.	-7285.	1167.	186.	487.	-884.	5409.	25516.
67.50	937.	-5513.	1107.	323.	423.	-3164.	2801.	22747.
78.75	345.	-6525.	727.	-379.	329.	-3203.	2947.	23539.
90.00	-213.	-6034.	-555.	-1762.	237.	-785.	6845.	26688.
101.25	-530.	-5219.	-1064.	-1669.	195.	3102.	9817.	27793.
112.50	-769.	-5047.	-140.	-494.	157.	4780.	9256.	27307.
123.75	-922.	-6046.	444.	-445.	173.	1835.	7494.	27124.
135.00	-437.	-6782.	400.	-660.	136.	-2378.	5250.	25323.
146.25	655.	-6539.	735.	-38.	167.	-3932.	2641.	22722.
157.50	1320.	-6522.	1054.	-64.	229.	-3190.	2526.	23750.
168.75	1033.	-7052.	1163.	-680.	229.	-1419.	4583.	27521.
180.00	444.	-7216.	1521.	-560.	154.	547.	6569.	29080.
191.25	269.	-6934.	1353.	-560.	167.	947.	6833.	29939.
202.50	521.	-6660.	497.	-1449.	111.	-662.	6745.	29505.
213.75	805.	-6648.	395.	-1651.	34.	-3409.	4808.	28137.
225.00	820.	-7158.	1050.	-1404.	-21.	-7210.	1299.	26008.
236.25	833.	-7734.	1470.	-724.	-64.	-10661.	-1954.	22522.
247.50	1080.	-7760.	2136.	1478.	-89.	-11803.	-4488.	17335.
258.75	1237.	-7984.	3070.	3675.	-58.	-12185.	-6262.	13742.
270.00	1415.	-3859.	3498.	4086.	-186.	-13254.	-639.	13695.
281.25	1807.	-9278.	3783.	4593.	-340.	-12897.	-57.	14260.
292.50	2172.	-9117.	4381.	5667.	-364.	-10754.	-4931.	14973.
303.75	2025.	-9340.	4241.	4568.	-202.	-8575.	-2332.	19061.
315.00	1828.	-9236.	2997.	1752.	-8.	-5401.	2381.	25099.
326.25	1555.	-7857.	1541.	122.	120.	-1788.	5918.	27870.
337.50	1703.	-6500.	453.	-537.	191.	-2252.	5359.	26242.
348.75	756.	-6336.	143.	-1238.	214.	-6329.	1880.	23505.

RUN 23 POINT 10
TAPERED TIP

V/R = 0.200 ALFS,U = 0.0 CLR/S = 0.12534 CP/S = 0.004893
MAT = 0.720 THETA = 11.0 CXR/S = -0.00265 RHO = 0.002372

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	655.2		-6723.0		795.5		-420.8		606.1		-1392.5	
1	483.1	-672.4	-185.4	1021.5	234.1	-1131.6	606.1	-1392.5	606.1	-1392.5	606.1	-1392.5
2	-271.9	135.9	735.1	-42.8	-996.6	-49.2	-1779.7	-406.2	-1779.7	-406.2	-1779.7	-406.2
3	-411.0	294.4	592.3	-476.3	-713.4	763.9	-1006.7	1147.6	-1006.7	1147.6	-1006.7	1147.6
4	-180.7	-162.8	132.5	-12.4	-83.2	-5.3	-38.8	146.3	-38.8	146.3	-38.8	146.3
5	2.5	60.0	-34.0	-76.6	9.6	-17.4	6.4	-209.6	6.4	-209.6	6.4	-209.6
6	-156.8	74.6	-174.2	45.1	235.2	-91.1	186.1	10.4	186.1	10.4	186.1	10.4
7	-79.0	213.1	-81.9	265.4	114.1	-283.8	73.3	-11.6	73.3	-11.6	73.3	-11.6
8	-115.4	127.9	-201.5	150.1	78.5	-174.1	-135.8	-67.6	-135.8	-67.6	-135.8	-67.6
9	-9.1	109.7	-72.6	145.3	14.5	-64.1	-113.2	95.0	-113.2	95.0	-113.2	95.0
10	27.3	76.9	54.0	117.1	209.6	92.4	206.1	223.9	206.1	223.9	206.1	223.9

BLADE EDGEWISE BENDING MOMENT

BLADE EDGEWISE BENDING MOMENT												
HARMONIC	PITCH LINK			.5R		.6R		.7R				
	LOAD	COS	SIN	COS	SIN	COS	SIN	COS	SIN			
0	180.6			-2605.5		4814.4		10397.9				
1	63.4	236.0		-320.5	4654.1	-604.9	3882.3	-586.5	2638.3			
2	108.7	83.5		3301.4	-514.5	3538.3	-363.2	4159.6	77.9			
3	20.8	5.8		-803.7	-1354.0	-394.7	-2008.6	-275.2	-2315.4			
4	-17.2	-27.9		-647.2	2417.3	-712.8	2299.1	-733.9	1812.0			
5	-25.4	-4.3		-2134.7	1408.4	-1799.2	1436.0	-1377.2	1620.2			
6	-18.0	2.5		-419.5	-125.2	-495.1	-96.1	-155.8	-446.4			
7	6.2	24.2		-588.2	1098.3	-738.5	1086.9	-567.4	462.2			
8	-12.1	0.3		-242.5	359.0	41.5	282.7	404.5	106.9			
9	-8.8	-15.6		-13.5	457.4	96.7	170.6	357.0	-82.4			
10	3.0	-8.0		157.9	404.5	-438.8	-165.6	-400.7	-285.2			

RUN 23 POINT 10
TAPERED TIP

V/GR = J.200 ALFS,U = J.0 CLR/S = 0.12534 CP/S = 0.004893
MAT = U.720 THETA = 11.0 CXR/S = -J.00265 RHO = 0.002372

	NORMAL BENDING MOMENT			PITCH LINK			EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LCAD		.5R	.6R	.7R
PSI									
J.00	-56.	-5569.	-102.	-2417.	300.		-4316.	3259.	10823.
11.25	914.	-5203.	-861.	-1932.	392.		2467.	9089.	13364.
22.50	1109.	-5875.	-479.	-1611.	505.		4681.	11939.	15361.
33.75	887.	-7074.	1249.	-518.	513.		2959.	9011.	14102.
45.00	1044.	-7304.	1753.	448.	457.		125.	5469.	10795.
56.25	1223.	-6878.	989.	432.	465.		-3073.	3511.	7777.
67.50	1040.	-6506.	751.	106.	440.		-4289.	2437.	6679.
78.75	503.	-6333.	473.	-724.	311.		-2557.	4211.	8969.
90.00	-210.	-6110.	-351.	-1851.	244.		241.	7999.	12495.
101.25	-642.	-5560.	-552.	-1774.	286.		3112.	9537.	13593.
112.50	-670.	-5206.	-347.	-1092.	279.		4266.	10019.	13051.
123.75	-626.	-5616.	-407.	-1257.	211.		1300.	8659.	12053.
135.00	-369.	-5106.	-24.	-1382.	206.		-2757.	4552.	9673.
146.25	202.	-6094.	462.	-1111.	252.		-3183.	3188.	8853.
157.50	507.	-6103.	219.	-1445.	265.		-215.	6617.	12446.
168.75	265.	-6316.	208.	-1721.	238.		2770.	10203.	16163.
180.00	-69.	-6386.	580.	-1549.	190.		3405.	10136.	16521.
191.25	-124.	-6322.	121.	-2074.	149.		1324.	9120.	15751.
202.50	151.	-6145.	-466.	-2615.	137.		-1010.	8185.	14800.
213.75	534.	-6057.	-102.	-2182.	123.		-2125.	6561.	13516.
225.00	673.	-6752.	430.	-1869.	72.		-4496.	4803.	12756.
236.25	758.	-7625.	1097.	-1165.	8.		-8682.	1250.	9680.
247.50	1161.	-7884.	2403.	1227.	-32.		-11787.	-4300.	2896.
258.75	1584.	-8124.	3142.	3182.	-62.		-13242.	-6702.	-1153.
270.00	1811.	-8704.	3036.	3435.	-129.		-13311.	-4822.	437.
281.25	2012.	-8867.	3527.	4131.	-231.		-10882.	-3271.	2360.
292.50	1848.	-8909.	4138.	4762.	-266.		-7720.	-1855.	4007.
303.75	1364.	-9116.	3358.	3068.	-157.		-5385.	2415.	8694.
315.00	1533.	-8066.	1609.	732.	8.		-1675.	7011.	12922.
326.25	1921.	-6034.	187.	-413.	126.		945.	7553.	12659.
337.50	1026.	-5543.	-484.	-1613.	209.		-2830.	5142.	10704.
348.75	-293.	-6308.	-166.	-2673.	265.		-7497.	1896.	9984.

RUN 25 POINT 4 TAPERED TIP

V/DI = 0.299 ALFS,U = -5.0 CLR/S = 0.07295 CP/S = 0.004181
 MAT = 0.781 TFEIA = 10.0 CX3/S = 0.00354 BHO = 0.002304

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	125.7		-6530.8		1382.3		561.5		-710.1		1922.0	
1	863.7	-1097.1	-1168.8	5262.6	485.0	-533.2	1499.2	-1604.5	-1104.7	635.8		
2	-154.3	777.2	485.0	-533.2	-215.9	-399.4	-732.3	538.7	167.2	722.0		
3	251.1	64.7	-215.9	-399.4	-2.7	0.6	234.4	563.6	-392.5	-17.4		
4	137.0	227.4	-2.7	0.6	13.9	-54.5	-194.7	-21.0	-332.9	72.3		
5	174.4	-74.4	13.9	-54.5	16.8	5.8	-107.3	60.0	33.8	-38.0		
6	-14.1	31.4	16.8	5.8	-90.8	-231.7	-62.3	-7.8	3.8	-58.1		
7	-134.5	-158.1	-90.8	-231.7	96.7	-33.4	93.1	184.9	34.3	1.2		
8	63.8	-27.8	96.7	-33.4	-34.2	-48.4	-75.6	70.6	-48.9	-27.4		
9	-22.1	-21.3	-34.2	-48.4	-29.4	-22.0	-5.7	7.4	-53.7	-89.5		
10	-23.0	3.7	-29.4	-22.0			-27.0	-37.4				

BLADE EDGEWISE BENDING MOMENT

PITCH LINK		BLADE EDGEWISE BENDING MOMENT							
LOAD		.5R		.6R		.7R			
HARMONIC	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN	
0	157.7		-3328.9		5297.4		6349.2		
1	89.1	132.8	-3637.6	5262.6	-4505.0	4903.1	-3878.5	3517.1	
2	24.2	62.9	1625.1	-1254.8	2056.7	-1233.5	1556.3	-642.1	
3	-28.5	0.6	-1132.8	-139.0	-963.2	-493.8	-449.8	-582.7	
4	25.0	39.5	-380.0	693.6	139.6	625.0	254.2	183.1	
5	1.2	7.0	656.0	-650.3	721.5	-585.3	551.9	-153.5	
6	2.5	-8.0	130.8	-424.9	265.9	-339.5	181.3	-391.0	
7	3.7	-11.9	-372.2	-350.0	-339.2	-272.2	-172.0	342.1	
8	4.0	-2.8	327.6	-107.6	336.6	-242.0	128.5	-55.1	
9	0.7	-1.5	-172.2	-64.2	-161.0	6.0	-86.3	48.6	
10	1.6	-4.2	-114.1	5.6	-54.0	184.4	-175.2	348.5	

RUN 25 POINT 4
TAPERED TIP

V/OR = 0.299 ALPS,U = -5.0 CLR/S = 0.07295 CP/S = 0.004181
MAT = 0.781 THETA = 10.0 CXK/S = 0.00554 RHD = 0.002304

PSI	NORMAL BENDING MOMENT			PITCH LINK			EDGEWISE BENDING MOMENT		
	.3K	.5K	.6R	.7R	LOAD		.5R	.6R	.7K
0.00	1213.	-7510.	1183.	-482.	273.		-6434.	2755.	4660.
11.25	1226.	-7970.	1818.	-41.	314.		-6657.	2085.	4845.
22.50	1247.	-7655.	2029.	889.	368.		-5357.	2076.	3420.
33.75	983.	-7202.	1646.	1183.	408.		-3362.	3414.	3048.
45.00	413.	-6951.	1318.	750.	393.		-1753.	5145.	5017.
56.25	-116.	-6755.	1035.	-110.	349.		-1235.	5784.	6721.
67.50	-258.	-6293.	181.	-1445.	320.		-1322.	6498.	7676.
78.75	-266.	-5563.	-848.	-2502.	312.		-814.	7935.	8736.
90.00	-542.	-5049.	-1173.	-2651.	306.		-22.	8595.	8822.
101.25	-1209.	-5109.	-1017.	-2682.	263.		364.	8704.	8718.
112.50	-1628.	-5203.	-1112.	-3033.	177.		1511.	10186.	10177.
123.75	-1513.	-4750.	-1493.	-3175.	105.		3855.	12444.	11442.
135.00	-1470.	-4285.	-1764.	-3307.	74.		5135.	13301.	11382.
146.25	-1913.	-4473.	-1717.	-3788.	64.		4111.	12600.	11879.
157.50	-2308.	-4877.	-1604.	-4066.	79.		2724.	12000.	12770.
168.75	-1965.	-4838.	-1873.	-3969.	124.		2681.	12622.	12598.
180.00	-1028.	-4518.	-2244.	-3905.	161.		2913.	13289.	11929.
191.25	-258.	-4767.	-1909.	-3680.	162.		1673.	11922.	10940.
202.50	247.	-5670.	-901.	-2975.	134.		-678.	9219.	9626.
213.75	696.	-6575.	117.	-1809.	77.		-2763.	7114.	9039.
225.00	1191.	-7133.	1061.	-148.	14.		-5126.	4425.	7625.
236.25	1371.	-7729.	2058.	1552.	-23.		-8862.	102.	3563.
247.50	1328.	-8482.	2846.	2497.	-39.		-12037.	-2921.	253.
258.75	1457.	-8906.	3292.	2773.	-35.		-12080.	-2819.	454.
270.00	1657.	-8870.	3398.	2763.	7.		-13036.	-1585.	1517.
281.25	1613.	-8615.	3029.	2407.	64.		-8257.	-326.	1910.
292.50	1291.	-8140.	2452.	2071.	95.		-7328.	862.	2392.
303.75	704.	-7653.	2187.	2018.	93.		-7565.	499.	1887.
315.00	76.	-7555.	2108.	1573.	66.		-8717.	-893.	870.
326.25	19.	-7494.	1759.	61.	48.		-8630.	-427.	1777.
337.50	616.	-7061.	1206.	105.	57.		-6766.	1765.	3452.
348.75	1122.	-6522.	899.	-210.	200.		-5725.	3046.	4030.

RUN 25 POINT 10
TAPERED TIP

V/C R = 0.300 ALFS,U = -10.0 CLR/S = 0.07103 CP/S = 0.006365
 MAT = 0.781 THEIA = 12.0 CX/S = 0.01207 RHO = 0.002291

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	452.4		-6949.0		1002.8		-195.9	
1	845.4	-791.9	-1025.4	1165.2	1322.5	-1384.3	1758.3	-1830.2
2	-21.7	583.3	279.5	-302.0	-497.7	305.7	-915.7	292.0
3	52.7	175.2	-12.4	-352.7	16.6	517.9	5.8	527.7
4	144.2	182.3	39.2	5.5	-204.2	-32.7	-379.6	8.8
5	52.1	15.3	-1.3	-23.0	-28.2	-8.5	-108.5	-54.8
6	-5.5	59.1	22.8	36.6	-43.8	-45.3	33.2	-30.7
7	-163.7	-77.7	-138.4	-98.4	146.9	64.0	-2.8	-15.3
8	-15.5	-6.1	1.8	-10.2	15.6	19.3	33.7	-4.0
9	8.7	9.2	9.6	1.4	-32.5	-20.0	-17.7	-13.6
10	10.3	-0.1	6.1	-2.6	-25.1	-15.2	-19.7	-37.1

BLADE EDGEWISE BENDING MOMENT

HARMONIC	.5R		.6R		.7R	
	CCS	SIN	CCS	SIN	CCS	SIN
0	122.4		-3904.9		4628.2	
1	120.3	153.6	-2374.0	4976.3	-3432.3	4624.0
2	48.1	74.0	796.2	-889.0	1265.8	-761.5
3	-58.2	33.4	-659.9	-94.3	-507.2	-528.4
4	31.3	12.1	105.1	147.3	444.5	1331.4
5	-25.7	0.2	181.5	-1965.3	240.3	-1718.4
6	-0.5	2.9	2.7	-350.1	51.0	-304.0
7	0.6	-3.9	-351.6	-193.3	-357.7	-135.9
8	1.7	-0.8	-47.7	-35.0	-67.5	-102.9
9	-0.9	-4.3	98.1	18.6	153.7	58.1
10	-1.0	-1.1	21.3	49.3	60.5	134.8

PITCH LINK

HARMONIC	LOAD		.5R		.6R		.7R	
	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	122.4		-3904.9		4628.2		5171.9	
1	120.3	153.6	-2374.0	4976.3	-3432.3	4624.0	-2930.8	3530.8
2	48.1	74.0	796.2	-889.0	1265.8	-761.5	1503.7	-547.9
3	-58.2	33.4	-659.9	-94.3	-507.2	-528.4	-376.1	-294.2
4	31.3	12.1	105.1	147.3	444.5	1331.4	600.3	923.4
5	-25.7	0.2	181.5	-1965.3	240.3	-1718.4	279.7	-1308.7
6	-0.5	2.9	2.7	-350.1	51.0	-304.0	-110.1	-301.0
7	0.6	-3.9	-351.6	-193.3	-357.7	-135.9	18.5	80.4
8	1.7	-0.8	-47.7	-35.0	-67.5	-102.9	-72.7	-39.5
9	-0.9	-4.3	98.1	18.6	153.7	58.1	116.3	19.6
10	-1.0	-1.1	21.3	49.3	60.5	134.8	49.6	177.6

RUN 25 POINT 10 TAPERED TIP

V/CR = 0.300 ALFS,U = -10.0 CLR/S = 0.07103 CP/S = 0.006365
 MAT = 0.781 THETA = 12.0 CXR/S = 0.01207 RHQ = 0.002291

NORMAL BENDING MOMENT PITCH LINK EDGEWISE BENDING MOMENT

	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1349.	-7768.	1673.	191.	234.	-6133.	2479.	4250.
11.25	1690.	-7901.	1833.	329.	321.	-6511.	1848.	3699.
22.50	1858.	-7759.	1952.	812.	414.	-5176.	2346.	3358.
33.75	1535.	-7601.	1962.	1111.	460.	-2673.	4287.	4455.
45.00	832.	-7537.	1917.	966.	442.	-1075.	5659.	5692.
56.25	325.	-7240.	1513.	350.	389.	-1098.	5733.	5804.
67.50	265.	-6563.	543.	-642.	330.	-1566.	6107.	5854.
78.75	205.	-5898.	-362.	-1665.	276.	-1741.	6839.	6258.
90.00	-249.	-5618.	-614.	-2111.	229.	-1350.	7256.	6712.
101.25	-819.	-5581.	-520.	-2229.	173.	425.	8785.	8201.
112.50	-1056.	-5429.	-754.	-2246.	100.	3139.	11557.	10287.
123.75	-999.	-5153.	-907.	-2146.	34.	4395.	12675.	10679.
135.00	-1024.	-5108.	-804.	-2208.	8.	2943.	11070.	9648.
146.25	-1236.	-5410.	-613.	-2619.	27.	226.	8888.	9155.
157.50	-1281.	-5663.	-638.	-3002.	78.	-1606.	7917.	9130.
168.75	-872.	-5576.	-942.	-3118.	139.	-1467.	8575.	9221.
180.00	-249.	-5431.	-1178.	-3079.	170.	79.	10286.	10035.
191.25	162.	-5644.	-935.	-2806.	133.	991.	11150.	10730.
202.50	315.	-6217.	-260.	-2145.	32.	-454.	9644.	5738.
213.75	468.	-6826.	512.	-1153.	-69.	-3994.	6139.	6953.
225.00	775.	-7251.	1200.	40.	-116.	-8019.	1928.	3167.
236.25	1113.	-7621.	1823.	1165.	-108.	-10977.	-1458.	-58.
247.50	1270.	-8160.	2493.	1951.	-72.	-11877.	-2708.	-875.
258.75	1303.	-8692.	3143.	2482.	-32.	-10534.	-1858.	405.
270.00	1473.	-8815.	3375.	2831.	-11.	-7985.	-0.	1801.
281.25	1675.	-8572.	3111.	2858.	-17.	-6387.	1342.	2210.
292.50	1484.	-8359.	2880.	2697.	-14.	-7309.	562.	1289.
303.75	538.	-8259.	2852.	2518.	14.	-9525.	-1658.	-328.
315.00	587.	-8050.	2577.	2072.	38.	-10079.	-2192.	-512.
326.25	660.	-7704.	2035.	1353.	56.	-8188.	-85.	1319.
337.50	888.	-7455.	1682.	783.	99.	-6309.	2141.	3176.
348.75	1089.	-7505.	1611.	435.	164.	-5421.	2860.	4048.

RUN 24 POINT 10
TAPERED TIP

V/OR = 0.300 ALFS,U = 0.0 CLR/S = 0.11481 CP/S = 0.004735
MAT = 0.781 THEIA = 12.0 CXR/S = 0.00019 RHO = 0.002256

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	457.1		-6639.4		590.0		-804.4	
1	1041.5	-1130.5	-1363.4	1560.9	1687.8	-1854.2	2075.4	-2388.0
2	-210.2	824.9	696.5	-436.6	-1046.8	499.3	-1678.3	683.8
3	189.1	17.8	-148.9	-460.8	154.9	638.3	33.4	752.1
4	351.5	58.9	-38.4	55.8	-282.6	112.0	-627.5	316.4
5	158.2	-131.2	-127.6	-7.4	-45.0	72.4	-441.2	246.3
6	191.6	19.8	47.9	-9.8	-113.8	80.8	-48.7	9.6
7	-227.1	-186.0	-276.6	-284.5	163.2	279.9	-85.1	-31.7
8	124.4	-141.8	182.6	-188.7	-115.5	238.8	55.3	-37.8
9	5.0	-90.8	25.9	-166.0	-10.5	160.6	44.7	-54.2
10	17.2	3.5	-40.1	-98.7	-225.2	-49.8	-238.4	-235.5

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK LOAD		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	146.8		-2894.3		6202.5		7496.8	
1	115.5	232.7	-5146.0	6530.2	-5524.9	5813.3	-4685.7	4685.2
2	120.9	121.8	3268.2	-1360.6	3757.3	-1426.0	3647.5	-1453.3
3	-32.5	2.1	-1461.2	-146.3	-1140.3	-644.3	-452.6	-452.1
4	16.8	13.4	335.2	3199.5	1061.6	2303.8	1421.8	1359.9
5	-21.8	5.5	-2371.6	1452.5	-1624.9	1199.6	-827.6	721.4
6	-48.9	-11.1	15.2	-270.1	288.0	-470.7	27.0	-240.2
7	-33.0	-4.1	-554.6	-330.3	-260.6	-435.2	255.7	178.7
8	2.7	20.5	377.7	-606.3	221.6	-862.2	-135.4	-366.1
9	8.2	7.8	-106.0	-375.0	-187.2	-412.8	-407.0	-81.9
10	-3.0	-26.1	5.1	-219.6	566.0	77.3	503.4	317.8

RUN 24 POINT 10
TAPERED TIP

V/D R = 0.300 ALFS, U = 0.0 CLR/S = 0.11481 CP/S = 0.004735
MAT = 0.781 TETA = 12.0 CXR/S = 0.00019 RHO = 0.002256

NORMAL BENDING MOMENT PITCH LINK EDGEWISE BENDING MOMENT

	.3R	.5R	.6R	.7R	LCAD	.5R	.6R	.7R
PSI								
0.00	2138.	-7652.	755.	-1715.	272.	-8232.	2959.	6844.
11.25	1467.	-8364.	2281.	-622.	416.	-4743.	3441.	7856.
22.50	1280.	-7408.	2250.	1283.	594.	1039.	6796.	7870.
33.75	1261.	-6551.	1141.	1556.	615.	2551.	8938.	7138.
45.00	717.	-6593.	1354.	697.	512.	-2314.	4756.	4828.
56.25	257.	-7283.	1580.	-288.	432.	-6929.	608.	3339.
67.50	568.	-6479.	67.	-1732.	370.	-6472.	2822.	5031.
78.75	619.	-5429.	-1143.	-2570.	335.	-2314.	7180.	7587.
90.00	-250.	-5037.	-962.	-2328.	346.	2614.	10554.	10203.
101.25	-1237.	-5202.	-1018.	-2598.	248.	5894.	14135.	13748.
112.50	-1468.	-5055.	-1405.	-3155.	76.	6484.	15309.	14758.
123.75	-1320.	-4322.	-1481.	-3054.	41.	5353.	13027.	12279.
135.00	-1511.	-4050.	-1831.	-3633.	54.	3522.	11614.	11649.
146.25	-2139.	-4667.	-2080.	-4852.	91.	2378.	12429.	13956.
157.50	-2355.	-4963.	-1854.	-4936.	122.	4456.	14730.	16086.
168.75	-1494.	-4354.	-2380.	-4685.	159.	8892.	19079.	18239.
180.00	-275.	-3870.	-3144.	-4969.	199.	10446.	21235.	19078.
191.25	103.	-4393.	-2275.	-4353.	174.	6841.	16910.	15746.
202.50	100.	-5574.	-725.	-3024.	159.	1414.	11087.	11678.
213.75	546.	-6505.	12.	-1953.	64.	-2733.	8003.	9427.
225.00	1360.	-6835.	898.	-63.	-33.	-6009.	4213.	5260.
236.25	1742.	-7437.	2224.	2115.	-64.	-9693.	-410.	571.
247.50	1762.	-8590.	3011.	2661.	-159.	-13060.	-2366.	261.
258.75	1922.	-9440.	3570.	2764.	-245.	-14306.	-3356.	882.
270.00	2119.	-9302.	4117.	3505.	-151.	-13554.	-4805.	-993.
281.25	2029.	-9163.	3843.	3323.	-84.	-11997.	-3606.	-959.
292.50	1674.	-8891.	3150.	2722.	-199.	-9226.	-54.	1662.
303.75	1081.	-8027.	2849.	3054.	-224.	-6222.	1804.	2432.
315.00	333.	-7676.	2637.	2514.	-42.	-6605.	867.	2021.
326.25	200.	-7866.	2074.	536.	125.	-9756.	-784.	2788.
337.50	1120.	-7275.	1150.	-697.	189.	-10810.	-478.	3711.
348.75	2176.	-6137.	236.	-1244.	222.	-9526.	1842.	4918.

RUN 26 POINT 9
TAPERED TIP

V/CN = 0.300 ALFS,U = -7.5 CLR/S = 0.10+56 CP/S = 0.009651
MAT = 0.780 THEIA = 15.0 CXR/S = 0.01338 RHO = 0.002314

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN
0	-350.6			-6161.9			167.9			-391.5		
1	895.1	-1513.5		-1221.6	1721.7		1397.9	-2082.0		1675.3	-2685.2	
2	-40.7	1421.2		76.3	-1474.6		-52.6	1758.0		-121.6	2069.3	
3	294.0	-420.6		-621.1	144.0		762.8	68.9		1042.4	424.5	
4	643.7	452.5		-74.6	-95.6		-213.9	-103.9		-736.6	-376.0	
5	77.0	-358.1		-77.4	-33.1		-43.8	332.2		-333.0	647.6	
6	171.6	63.9		84.1	47.5		-162.6	-27.8		-191.6	18.8	
7	-152.5	281.3		-206.4	230.6		167.2	-290.9		-55.9	-71.2	
8	56.2	-50.5		113.5	-116.1		-17.4	77.0		126.4	-50.2	
9	34.3	35.4		28.0	49.2		2.8	28.4		59.3	122.8	
10	-15.7	22.8		-60.9	11.2		-1.5	-18.3		-95.7	19.3	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5R			.6R			.7R		
	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN
0	172.3			-2352.3			6016.5			6320.6		
1	119.3	15.4		-3036.9	5197.6		-3652.0	5453.1		-3124.0	4187.9	
2	-22.5	92.6		69.0	-3815.8		64.8	-4387.3		-15.5	-3508.7	
3	-57.1	-18.2		-405.3	1029.6		-614.8	495.5		-666.8	-99.5	
4	88.8	55.0		-329.4	85.3		242.8	439.1		836.4	740.8	
5	-17.3	-16.6		1696.4	1392.5		1771.3	662.7		1988.3	267.4	
6	-6.3	7.0		337.2	-253.0		481.1	-231.7		409.4	-351.1	
7	-7.0	3.9		-485.2	728.9		-446.8	904.9		93.3	356.1	
8	1.6	-6.8		155.2	-191.5		-74.9	-180.4		-369.9	69.6	
9	0.4	0.5		173.7	120.3		93.7	-6.2		-51.7	-92.4	
10	0.4	-7.2		-326.8	1.2		-281.6	-0.9		-142.4	-59.0	

RUN 26 PCINT 9

TAPERED T IP

V/OR = 0.300 ALFS,U = -7.5 CLR/S = 0.10456 CP/S = 0.009651

MAT = 0.780 THETA = 15.0 CXR/S = 0.01338 RHO = 0.002314

NORMAL BENDING MOMENT

PITCH LINK

EDGEWISE BENDING MOMENT

	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1612.	-8122.	2007.	977.	272.	-4504.	3600.	5278.
11.25	1635.	-7923.	2204.	2053.	321.	-3016.	4334.	4738.
22.50	755.	-7652.	2291.	2646.	365.	-4121.	2715.	2532.
33.75	-206.	-7380.	2098.	2441.	353.	-6164.	236.	147.
45.00	-559.	-6766.	1299.	1307.	303.	-5722.	586.	1169.
56.25	-462.	-6070.	-50.	-808.	253.	-3091.	5020.	5480.
67.50	-372.	-5415.	-1201.	-2497.	319.	-176.	8861.	8923.
78.75	-702.	-4859.	-1459.	-2673.	330.	2074.	10574.	9959.
90.00	-1463.	-4859.	-1346.	-2861.	305.	2346.	10629.	10642.
101.25	-1948.	-4790.	-2014.	-4127.	228.	1819.	11358.	12045.
112.50	-1210.	-3779.	-3331.	-4913.	108.	3953.	14386.	13296.
123.75	-2358.	-2644.	-3543.	-4530.	-12.	7284.	16990.	13704.
135.00	-3354.	-2752.	-3436.	-4203.	-118.	7963.	16599.	13830.
146.25	-4957.	-3331.	-2815.	-4082.	-172.	7678.	15890.	14404.
157.50	-4256.	-3123.	-2860.	-3670.	-98.	8108.	16289.	14308.
168.75	-2390.	-2929.	-3089.	-3574.	69.	5635.	14250.	11965.
180.00	-684.	-3525.	-2567.	-3799.	196.	-390.	9297.	8800.
191.25	439.	-5642.	-1124.	-3154.	237.	-5167.	5219.	7223.
202.50	1126.	-7010.	502.	-1274.	213.	-6396.	3625.	6555.
213.75	1538.	-7721.	1780.	1265.	123.	-5603.	3148.	5019.
225.00	1443.	-8203.	2964.	3775.	24.	-5137.	2099.	2627.
236.25	1027.	-8806.	4015.	5209.	11.	-7335.	-881.	-68.
247.50	999.	-4053.	4094.	4905.	88.	-10848.	-3896.	-1999.
258.75	1572.	-3435.	2966.	3433.	194.	-11004.	-2948.	-1159.
270.00	1531.	-7585.	1653.	1675.	278.	-7558.	1211.	2429.
281.25	1360.	-7238.	1015.	314.	283.	-4502.	4363.	6015.
292.50	211.	-7004.	863.	-35.	216.	-3124.	5397.	7341.
303.75	-635.	-6498.	744.	478.	157.	-2987.	4970.	5864.
315.00	-743.	-6173.	630.	1006.	132.	-4575.	3112.	2832.
326.25	-353.	-6425.	728.	1002.	123.	-6736.	1387.	1284.
337.50	132.	-7128.	1123.	655.	154.	-7455.	1356.	2568.
348.75	900.	-7861.	1635.	429.	219.	-6522.	2318.	4509.

RUN 26 POINT 12 TAPERED TIP

V/OF = 0.377 ALFS,U = -5.0 CLR/S = 0.07736 CP/S = 0.005677
 MAT = 0.825 IF-IA = 12.0 CXR/S = 0.00591 RHO = 0.002264

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	CGS	SIN	CGS	SIN	CGS	SIN	CGS	SIN
0	449.5		-6670.3		753.5		251.0	
1	1261.8	-1344.3	-1574.3	1532.9	1906.5	-1921.4	2418.6	-2631.2
2	-276.1	1355.0	651.8	-1276.6	-816.2	1547.5	-1180.1	1794.5
3	140.4	114.9	-643.6	-461.0	768.3	756.0	989.6	1197.8
4	745.5	407.6	56.9	-111.1	-415.2	72.4	-965.6	-75.6
5	-287.0	-383.6	-128.7	-19.2	84.5	275.7	-101.1	662.9
6	155.7	39.3	111.6	-13.6	-103.7	-27.6	-139.9	-131.9
7	-310.8	304.7	-363.0	296.2	298.2	-302.9	-25.0	-4.5
8	78.3	-13.8	170.1	-61.1	-59.2	-16.2	120.9	-24.7
9	17.4	41.2	25.7	71.0	11.0	-5.2	55.3	86.1
10	-41.7	37.0	-77.3	-14.4	0.8	-78.0	-90.3	-57.0

PITCH LINK BLADE EDGEWISE BENDING MOMENT

	LOAD		.5R		.6R		.7R	
HARMONIC	CGS	SIN	CGS	SIN	CGS	SIN	CGS	SIN
0	156.6		-2551.0		5500.6		6299.5	
1	213.3	98.4	-4474.9	5690.1	-5565.9	5678.8	-4375.4	4649.0
2	45.1	124.0	2082.2	-3823.7	2315.4	-4303.5	2682.7	-3355.9
3	-121.9	-9.5	-1479.7	913.9	-1516.1	198.3	-1273.0	-183.7
4	114.7	35.7	1871.8	2002.9	2353.6	1797.8	2721.4	1628.2
5	-24.6	-40.9	2360.0	804.7	2170.9	285.1	2130.8	-292.9
6	-17.3	-6.7	440.5	-760.1	349.5	-668.1	280.2	-458.1
7	-14.0	5.9	-924.0	550.8	-817.9	623.0	-43.6	46.8
8	-1.1	-4.9	193.3	-194.1	-116.9	-94.8	-454.4	-51.6
9	0.1	-1.2	210.3	135.7	171.9	49.7	88.0	-73.7
10	2.1	-12.5	-245.0	-15.4	-43.5	202.9	141.1	113.2

RUN 26 POINT 12
TAPERED YIP

V/OR = 0.377 ALFS,U = -5.0 CLR/S = 0.07736 CP/S = 0.005677
MAT = 0.825 TPEIA = 12.0 CRR/S = 0.00591 RHC = 0.002264

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1574.	-8446.	2449.	1333.	352.	-2517.	4802.	6997.
11.25	2710.	-8453.	2797.	2800.	358.	-1568.	4963.	5453.
22.50	2471.	-8530.	3360.	3900.	494.	-3658.	2060.	2224.
33.75	1647.	-8571.	3542.	3966.	530.	-6809.	-1138.	-259.
45.00	1092.	-8024.	2747.	2892.	490.	-7793.	-1709.	-475.
56.25	307.	-7116.	1315.	826.	476.	-5900.	999.	2428.
67.50	510.	-6253.	-110.	-1227.	464.	-2221.	5855.	6987.
78.75	25.	-5547.	-804.	-2040.	396.	1342.	9586.	9736.
90.00	-709.	-5390.	-906.	-2259.	301.	2402.	13308.	10482.
101.25	-1134.	-5453.	-1228.	-3054.	172.	2099.	11028.	11867.
112.50	-551.	-4685.	-2146.	-3623.	-2.	4029.	13721.	13349.
123.75	-1368.	-3640.	-2572.	-3265.	-151.	6827.	15337.	13189.
135.00	-3058.	-3865.	-2145.	-3053.	-235.	6948.	14867.	13281.
145.25	-4447.	-4519.	-1911.	-3351.	-241.	6675.	15548.	15082.
157.50	-3661.	-3819.	-2535.	-3628.	-106.	8686.	17695.	16403.
168.75	-1439.	-2684.	-3520.	-4315.	115.	9406.	18176.	16020.
180.00	321.	-2068.	-3729.	-5341.	247.	6100.	15916.	15144.
191.25	804.	-4166.	-2406.	-5014.	246.	1570.	12146.	13943.
202.50	594.	-6304.	-339.	-2703.	162.	-1618.	8294.	11336.
213.75	669.	-7072.	1196.	493.	-3.	-3864.	4993.	6816.
225.00	1084.	-7645.	2466.	3522.	-172.	-6824.	904.	1153.
236.25	1352.	-8757.	4017.	5371.	-213.	-11868.	-4700.	-3358.
247.50	1901.	-9883.	4859.	5414.	-123.	-16402.	-8375.	-4639.
258.75	2915.	-9811.	4291.	4575.	30.	-14973.	-6342.	-2648.
270.00	3503.	-6879.	3302.	3892.	181.	-7930.	-76.	1643.
281.25	2758.	-8407.	2816.	3228.	216.	-2122.	5229.	6031.
292.50	1241.	-8287.	2665.	2643.	119.	-1720.	5586.	6619.
303.75	155.	-7629.	2293.	2426.	47.	-5211.	1618.	2567.
315.00	47.	-6694.	1370.	1989.	80.	-5249.	-1542.	-1464.
326.25	517.	-6380.	499.	1014.	159.	-10843.	-1966.	-1464.
337.50	664.	-6961.	748.	264.	252.	-9051.	104.	1752.
348.75	1179.	-7919.	1793.	365.	329.	-5573.	2533.	5389.

RUN 26 POINT 17 TAPERED TIP

V/GR = 0.376 ALPS/U = -10.0 CLR/S = 0.07773 CP/S = 0.008083
 MAT = 0.825 THETA = 14.0 CXR/S = 0.01205 RHO = 0.002247

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
HARMONIC								
0	-566.9		-6609.0		695.8		141.6	
1	-40.1	-48.7	9.2	103.4	36.3	-174.6	168.4	-307.4
2	-10.8	15.5	-0.6	60.4	24.2	-133.3	36.5	-245.9
3	-71.3	-33.8	52.8	23.5	-26.7	2.8	26.3	25.6
4	22.2	-5.7	2.3	-2.9	-14.8	17.1	-45.5	33.4
5	-6.0	144.4	-3.9	-2.3	0.6	-85.1	-0.4	-190.4
6	-1.3	22.4	-1.6	6.0	-1.9	-19.2	-6.5	-26.5
7	73.5	33.0	74.4	32.5	-86.8	-23.6	-22.1	10.6
8	21.7	-12.7	29.7	-33.6	-16.3	14.3	17.5	-31.9
9	-5.9	11.0	-19.9	11.7	-1.9	-0.1	-35.8	17.6
10	6.3	6.6	6.2	-4.6	8.5	-13.3	18.8	-20.8

BLADE EDGEWISE BENDING MOMENT

	.5R		.6R		.7R	
	CCS	SIN	CCS	SIN	CCS	SIN
HARMONIC						
0	217.5		-3932.4		4574.1	
1	15.4	17.5	-16.7	230.0	-100.6	348.6
2	-2.9	8.5	-20.2	65.3	-72.2	240.7
3	-1.2	-1.6	92.6	7.3	51.2	-50.3
4	3.6	3.3	26.5	1.2	51.6	-20.1
5	-11.4	2.9	-738.4	42.0	-676.7	543.1
6	0.7	-2.4	-11.5	-39.5	-9.0	0.2
7	1.7	2.1	162.2	78.1	194.6	65.9
8	0.8	-2.1	61.8	-41.8	24.5	-10.0
9	-1.2	0.9	-38.6	42.9	-1.9	15.1
10	0.7	-0.7	23.0	36.0	-11.0	89.3

PITCH LINK

	LOAD		.5R		.6R		.7R	
	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
HARMONIC								
0	217.5		-3932.4		4574.1		5538.2	
1	15.4	17.5	-16.7	230.0	-100.6	348.6	-158.2	403.9
2	-2.9	8.5	-20.2	65.3	-72.2	240.7	-55.2	302.5
3	-1.2	-1.6	92.6	7.3	51.2	-50.3	-68.3	-54.4
4	3.6	3.3	26.5	1.2	51.6	-20.1	101.2	-28.0
5	-11.4	2.9	-738.4	42.0	-676.7	543.1	-553.2	575.5
6	0.7	-2.4	-11.5	-39.5	-9.0	0.2	0.9	-3.6
7	1.7	2.1	162.2	78.1	194.6	65.9	22.6	-32.0
8	0.8	-2.1	61.8	-41.8	24.5	-10.0	-25.0	88.1
9	-1.2	0.9	-38.6	42.9	-1.9	15.1	54.8	-12.4
10	0.7	-0.7	23.0	36.0	-11.0	89.3	-11.0	88.1

RUN 26 POINT 17 TAPERED TIP

V/COR = 0.376 ALFS,U = -10.0 CLR/S = 0.07073 CP/S = 0.008083
 MAT = 0.625 IPETA = 14.0 CXR/S = 0.01205 PHO = 0.002247

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LCAD	.5R	.6R	.7R
0.00	-569.	-6459.	617.	235.	283.	-4391.	4027.	4847.
11.25	-457.	-6477.	520.	-61.	294.	-3773.	4871.	5783.
22.50	-613.	-6548.	597.	-112.	308.	-3355.	5213.	6249.
33.75	-684.	-6524.	603.	-68.	316.	-3130.	5337.	6336.
45.00	-661.	-6445.	504.	-74.	313.	-3366.	5179.	6342.
56.25	-642.	-6446.	481.	-128.	304.	-4169.	4476.	5434.
67.50	-555.	-6544.	500.	-253.	294.	-4713.	4166.	5390.
78.75	-478.	-6594.	449.	-438.	294.	-4265.	4742.	6130.
90.00	-401.	-6524.	395.	-456.	304.	-3246.	5638.	6733.
101.25	-480.	-6408.	453.	-215.	311.	-2660.	5951.	6722.
112.50	-627.	-6511.	591.	52.	299.	-3054.	5420.	6112.
123.75	-851.	-6550.	746.	310.	275.	-4052.	4241.	5035.
135.00	-811.	-6566.	796.	372.	253.	-4711.	3504.	4490.
146.25	-596.	-6556.	665.	83.	244.	-4499.	4048.	5173.
157.50	-393.	-6603.	549.	-151.	257.	-3719.	5023.	6071.
168.75	-354.	-6594.	635.	-30.	277.	-3114.	5357.	6310.
180.00	-474.	-6585.	774.	82.	277.	-3314.	5093.	6251.
191.25	-584.	-6767.	773.	30.	262.	-4156.	4510.	5867.
202.50	-542.	-6643.	690.	105.	256.	-4691.	3983.	5056.
213.75	-438.	-6539.	621.	189.	258.	-4516.	4047.	4811.
225.00	-464.	-6620.	630.	11.	256.	-4147.	4579.	5570.
236.25	-532.	-6744.	677.	-123.	258.	-3745.	5043.	6273.
247.50	-452.	-6620.	663.	64.	268.	-3248.	5318.	6155.
258.75	-485.	-6492.	670.	394.	272.	-3373.	5009.	5433.
270.00	-622.	-6538.	873.	577.	263.	-4425.	3851.	4626.
281.25	-684.	-6859.	1096.	639.	254.	-5229.	3004.	4340.
292.50	-511.	-6864.	1040.	585.	258.	-4873.	3454.	4724.
303.75	-293.	-6725.	846.	458.	268.	-3937.	4509.	5252.
315.00	-312.	-6658.	843.	526.	276.	-3364.	4934.	5546.
326.25	-370.	-6784.	1011.	652.	277.	-3564.	4601.	5417.
337.50	-628.	-6777.	1063.	722.	275.	-4302.	3924.	4750.
348.75	-792.	-6605.	882.	584.	277.	-4738.	3431.	4292.

RUN 25 POINT 19 TAPERED TIP

V/CR = 0.375 ALFS,U = 0.0 CLK/S = 0.10092 CP/S = 0.005039
 MAT = 0.827 TFCIA = 12.0 CX/S = 0.00049 RHC = 0.002229

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	165.5		-6258.4		270.4		270.4		-736.1		2744.8	
1	1538.0	-1380.2	-1844.3	1763.8	2164.2	-2197.6	2164.2	-2197.6	-1597.2	2404.0	2744.8	-2924.0
2	-634.0	1527.8	967.2	-1500.4	-1156.6	2006.7	-1156.6	2006.7	429.8	1203.4	-1597.2	2404.0
3	43.7	132.5	-337.2	-564.6	381.2	847.4	381.2	847.4	-960.5	-548.1	429.8	1203.4
4	67.5	749.6	108.4	-132.9	-448.2	-46.4	-448.2	-46.4	-280.6	51.8	-960.5	-548.1
5	-205.5	136.9	-210.8	-27.2	61	-8.7	61	-8.7	-47.9	-479.1	-280.6	51.8
6	44.4	446.0	-23.4	27.6	62	-286.8	62	-286.8	-14.3	-56.0	-47.9	-479.1
7	-507.3	314.2	-540.1	191.2	483.	-289.6	483.	-289.6	57.3	-2.0	-14.3	-56.0
8	110.8	55.9	132.3	44.3	-66.4	-94.8	-66.4	-94.8	14.3	143.1	57.3	-2.0
9	-38.2	126.5	-59.5	187.1	56.2	-58.0	56.2	-58.0	23.4	24.9	14.3	143.1
10	-50.2	20.3	-67.1	-6.6	112.5	9.3	112.5	9.3			23.4	24.9

BLADE EDGEWISE BENDING MOMENT

BLADE EDGEWISE BENDING MOMENT										
FLITCH LINK		.5R			.6R			.7R		
LOAD		CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN	
HARMONIC										
0	134.5			-1538.7		7609.8		3048.0		
1	187.1	174.0		-5634.3	6429.7	-6480.1	6126.3	-5207.9	4972.2	
2	76.1	149.1		3823.9	-5465.3	3812.6	-6177.5	3003.8	-4596.2	
3	-52.7	-12.1		-2597.7	1096.2	-2195.6	321.4	-1464.1	62.0	
4	142.9	45.8		1687.8	3532.9	2101.6	3561.1	2268.7	3490.9	
5	5.1	-92.0		154.3	-848.6	537.2	-607.1	1182.5	-608.1	
6	-50.5	-104.4		184.5	-1315.6	96.1	-797.5	361.8	-717.4	
7	-62.2	-38.7		-1244.3	457.1	-1179.1	558.0	-171.1	-27.7	
8	-28.6	-17.3		-38.7	-204.3	-269.9	-306.0	-616.9	-424.8	
9	1.8	-4.6		-196.4	756.9	-256.9	445.7	-145.6	67.2	
10	14.9	7.4		-308.9	173.7	-497.5	275.8	-249.2	308.2	

FITCH LINK

HARMONIC	LOAD			.5R			.6R			.7R		
	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	134.5		-1538.7		7609.8		3048.0		3048.0			
1	187.1	174.0	-5634.3	6429.7	-6480.1	6126.3	-5207.9	4972.2	-5207.9	4972.2		
2	76.1	149.1	3823.9	-5465.3	3812.6	-6177.5	3003.8	-4596.2	3003.8	-4596.2		
3	-52.7	-12.1	-2597.7	1096.2	-2195.6	321.4	-1464.1	62.0	-1464.1	62.0		
4	142.9	45.8	1687.8	3532.9	2101.6	3561.1	2268.7	3490.9	2268.7	3490.9		
5	5.1	-92.0	154.3	-848.6	537.2	-607.1	1182.5	-608.1	1182.5	-608.1		
6	-50.5	-104.4	184.5	-1315.6	96.1	-797.5	361.8	-717.4	361.8	-717.4		
7	-62.2	-38.7	-1244.3	457.1	-1179.1	558.0	-171.1	-27.7	-171.1	-27.7		
8	-28.6	-17.3	-38.7	-204.3	-269.9	-306.0	-616.9	-424.8	-616.9	-424.8		
9	1.8	-4.6	-196.4	756.9	-256.9	445.7	-145.6	67.2	-256.9	445.7		
10	14.9	7.4	-308.9	173.7	-497.5	275.8	-249.2	308.2	-497.5	275.8		

TAPERED TIP

W/CB = 2.375

	NORMAL BENDING MOMENT	PITCH LINK	EDGEWISE BENDING MOMENT
1	1.00	0.00	0.00
2	1.00	0.00	0.00
3	1.00	0.00	0.00
4	1.00	0.00	0.00
5	1.00	0.00	0.00
6	1.00	0.00	0.00
7	1.00	0.00	0.00
8	1.00	0.00	0.00
9	1.00	0.00	0.00
10	1.00	0.00	0.00
11	1.00	0.00	0.00
12	1.00	0.00	0.00
13	1.00	0.00	0.00
14	1.00	0.00	0.00
15	1.00	0.00	0.00
16	1.00	0.00	0.00
17	1.00	0.00	0.00
18	1.00	0.00	0.00
19	1.00	0.00	0.00
20	1.00	0.00	0.00
21	1.00	0.00	0.00
22	1.00	0.00	0.00
23	1.00	0.00	0.00
24	1.00	0.00	0.00
25	1.00	0.00	0.00
26	1.00	0.00	0.00
27	1.00	0.00	0.00
28	1.00	0.00	0.00
29	1.00	0.00	0.00
30	1.00	0.00	0.00
31	1.00	0.00	0.00
32	1.00	0.00	0.00
33	1.00	0.00	0.00
34	1.00	0.00	0.00
35	1.00	0.00	0.00
36	1.00	0.00	0.00
37	1.00	0.00	0.00
38	1.00	0.00	0.00
39	1.00	0.00	0.00
40	1.00	0.00	0.00
41	1.00	0.00	0.00
42	1.00	0.00	0.00
43	1.00	0.00	0.00
44	1.00	0.00	0.00
45	1.00	0.00	0.00
46	1.00	0.00	0.00
47	1.00	0.00	0.00
48	1.00	0.00	0.00
49	1.00	0.00	0.00
50	1.00	0.00	0.00
51	1.00	0.00	0.00
52	1.00	0.00	0.00
53	1.00	0.00	0.00
54	1.00	0.00	0.00
55	1.00	0.00	0.00
56	1.00	0.00	0.00
57	1.00	0.00	0.00
58	1.00	0.00	0.00
59	1.00	0.00	0.00
60	1.00	0.00	0.00
61	1.00	0.00	0.00
62	1.00	0.00	0.00
63	1.00	0.00	0.00
64	1.00	0.00	0.00
65	1.00	0.00	0.00
66	1.00	0.00	0.00
67	1.00	0.00	0.00
68	1.00	0.00	0.00
69	1.00	0.00	0.00
70	1.00	0.00	0.00
71	1.00	0.00	0.00
72	1.00	0.00	0.00
73	1.00	0.00	0.00
74	1.00	0.00	0.00
75	1.00	0.00	0.00
76	1.00	0.00	0.00
77	1.00	0.00	0.00
78	1.00	0.00	0.00
79	1.00	0.00	0.00
80	1.00	0.00	0.00
81	1.00	0.00	0.00
82	1.00	0.00	0.00
83	1.00	0.00	0.00
84	1.00	0.00	0.00
85	1.00	0.00	0.00
86	1.00	0.00	0.00
87	1.00	0.00	0.00
88	1.00	0.00	0.00
89	1.00	0.00	0.00
90	1.00	0.00	0.00

RUN 39 POINT 26
RECTANGULAR TIP

V/OR = 0.201 ALFS,U = 10.0 CLR/S = 0.11314 CP/S = -0.000439
MAT = 0.717 TFCIA = 8.0 CX2/S = -0.02257 RHO = 0.002333

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	-137.8		-6048.0		61.1		-1869.8					
1	461.5	-1150.3	-555.0	1121.8	565.4	-1121.8	666.6	-1158.8				
2	-585.5	140.4	921.8	-154.6	-1301.4	196.2	-1954.3	334.7				
3	204.3	-61.8	-166.0	-243.8	203.6	480.3	105.8	847.8				
4	-109.1	-244.7	68.1	44.8	63.6	29.4	248.9	158.9				
5	83.6	-158.4	39.9	-4.1	-23.2	-4.0	17.8	-30.4				
6	87.1	35.0	27.4	-27.2	-38.4	-47.4	-5.5	-131.7				
7	133.3	56.6	133.3	79.1	-137.9	-89.0	-2.3	-7.3				
8	-74.4	100.5	-117.5	137.7	86.0	-135.7	-61.5	35.9				
9	-15.1	14.5	-22.2	24.9	20.7	-43.7	-8.5	-3.4				
10	6.1	-8.6	8.9	-13.7	-13.5	-18.2	0.7	-20.5				

BLADE EDGEWISE BENDING MOMENT

PITCH LINK

HARMONIC	LOAD			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	263.6		-1968.2		1515.1		5282.6					
1	27.2	175.5	-3423.8	4238.4	-2901.3	3391.6	-2122.4	2274.3				
2	31.2	-8.6	3588.9	-1202.8	4122.9	-1212.1	3508.9	-1254.9				
3	55.4	-48.8	-1477.1	-615.5	-1443.2	-1052.6	-969.1	-1308.3				
4	13.3	-16.1	337.6	-185.8	538.6	-326.0	124.9	-555.5				
5	12.5	4.3	558.7	1847.8	438.8	1628.2	303.8	1352.4				
6	13.3	8.6	-0.8	282.3	3.7	396.6	-67.2	428.5				
7	12.9	12.3	711.5	247.3	674.3	256.5	327.5	-6.5				
8	0.3	7.5	-239.9	332.0	-233.1	308.6	72.2	-26.5				
9	2.7	3.1	84.1	192.2	95.7	260.0	154.7	159.3				
10	-1.5	3.0	19.3	-152.5	16.0	-154.7	-62.4	-218.2				

RUN 39 POINT 26 RECTANGULAR TIP

V/CR = 0.201 ALPS,U = 10.0 CLR/S = 0.11314 CP/S = -0.000439
 MAT = 0.717 THETA = 0.0 CXR/S = -0.02257 RHC = 0.002333

PSI	NORMAL BENDING MOMENT			PITCH LINK			EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LCAD		.5R	.6R	.7R
11.25	51.	-5705.	-514.	-2862.	471.		-1160.	2831.	6954.
22.50	-341.	-5539.	-612.	-2384.	482.		197.	3750.	6582.
33.75	-518.	-5889.	-50.	-1875.	364.		-1828.	1577.	5035.
45.00	-1126.	-6291.	403.	-1634.	252.		-4608.	-1167.	3236.
56.25	-577.	-6042.	79.	-1532.	245.		-4826.	-1308.	2483.
67.50	57.	-5522.	-390.	-1574.	300.		-2743.	551.	3189.
78.75	-127.	-5588.	-261.	-1717.	365.		-849.	1953.	4591.
90.00	-837.	-5947.	105.	-1890.	435.		493.	2816.	6142.
101.25	-1113.	-5708.	3.	-1796.	490.		1819.	3758.	6801.
112.50	-931.	-5143.	-421.	-1672.	507.		1571.	3386.	5461.
123.75	-919.	-5132.	-542.	-1951.	482.		-667.	1568.	3981.
135.00	-1128.	-5463.	-445.	-2649.	422.		-1702.	1157.	4988.
146.25	-1175.	-5311.	-750.	-3226.	365.		867.	3813.	7665.
157.50	-1173.	-4715.	-1406.	-3604.	342.		5551.	8101.	10387.
168.75	-1424.	-4352.	-1780.	-3908.	315.		8984.	11387.	12793.
180.00	-1750.	-4424.	-1771.	-4217.	245.		8784.	11492.	13362.
191.25	-1678.	-4569.	-1771.	-4421.	170.		5933.	9103.	11565.
202.50	-1059.	-4555.	-1801.	-4292.	140.		3599.	7254.	9969.
213.75	-338.	-4868.	-1472.	-3784.	154.		1963.	6144.	9126.
225.00	99.	-5657.	-595.	-2997.	190.		-1190.	3119.	6941.
236.25	565.	-6707.	533.	-1887.	228.		-4841.	-724.	4174.
247.50	1206.	-7384.	1472.	-509.	225.		-6769.	-2759.	2452.
258.75	1705.	-7852.	2156.	775.	162.		-8371.	-4534.	370.
270.00	1728.	-8303.	2790.	1741.	65.		-10730.	-7261.	-2353.
281.25	1460.	-8403.	3125.	2350.	-21.		-11475.	-8394.	-3400.
292.50	1220.	-8041.	2798.	2279.	-52.		-9645.	-6558.	-2204.
303.75	1003.	-7654.	2082.	1213.	-10.		-7125.	-3584.	477.
315.00	818.	-7358.	1328.	-484.	76.		-5020.	-712.	4148.
326.25	775.	-6874.	466.	-2026.	164.		-3983.	1209.	6598.
337.50	762.	-6340.	-238.	-2916.	225.		-4851.	856.	6214.
348.75	560.	-6159.	-332.	-3179.	275.		-5934.	-493.	5310.
	289.	-6003.	-240.	-3115.	363.		-4428.	241.	6010.

RUN 39 PCINT 5
RECTANGULAR TIP

V/CN = 0.201 ALFS,U = -2.5 CLR/S = 0.07375 CP/S = 0.002871
MAT = 0.718 THETA = 8.0 CXR/S = 0.00182 RHO = 0.002356

BLADE NORMAL BENDING MOMENT

	.3R			.5R			.6R			.7R		
	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS
HARMONIC												
0	27.2		-6457.1			484.7			-1191.2			-1484.6
1	228.4	-781.5	-340.6	1023.5		380.8	-1188.5		601.2			209.2
2	-274.1	186.6	566.1	-188.1		-830.0	208.0		-1406.7			1201.0
3	51.7	237.8	78.8	-484.8		-127.0	749.5		-256.5			182.1
4	-156.5	-59.8	108.3	-68.3		-31.7	107.5		130.0			-146.6
5	-26.2	52.0	-14.7	-46.1		51.9	-8.4		71.2			-141.3
6	-72.6	122.1	-53.6	19.0		123.3	-96.8		176.7			-18.9
7	70.7	62.3	75.6	91.8		-97.8	-103.6		-27.7			59.2
8	5.9	135.5	-10.3	196.0		-75.3	-165.2		-128.2			26.8
9	37.8	32.5	19.9	57.8		-45.0	-43.3		-29.0			-20.4
10	25.0	-7.7	81.7	-13.8		120.0	-10.6		242.7			

BLADE EDGEWISE BENDING MOMENT

	.5R			.6R			.7R		
	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS
HARMONIC									
0	200.0		-3258.0			2032.1			5475.5
1	38.8	143.1	-1518.3	4350.8		-1510.8	3953.4		-883.3
2	32.7	25.5	1811.1	-776.9		2273.9	-808.2		2128.6
3	29.0	-23.0	-515.3	-823.0		-605.5	-1367.0		-998.4
4	-10.2	-17.7	-207.0	851.5		-329.5	736.1		-303.5
5	-0.5	8.3	-1372.2	1410.3		-1305.5	1576.7		-958.7
6	-5.2	-8.0	-323.4	138.4		-432.2	282.8		-111.5
7	3.9	8.6	202.0	100.2		208.3	111.9		196.2
8	-1.3	13.2	-55.5	400.8		56.2	326.1		151.4
9	-0.4	-0.2	162.3	90.1		243.1	66.1		-30.3
10	1.1	-3.1	235.8	-65.5		-121.7	-51.3		-29.2

RUN 39 POINT 5
RECTANGULAR TIP

V/CR = 0.201 ALFS, U = -2.5 CLR/S = 0.07375 CP/S = 0.002871
MAT = 0.718 TFLTA = 8.0 CXK/S = 0.00182 RHO = 0.002356

PSI	NORMAL BENDING MOMENT				PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LCAU	.5R	.6R	.7R	
0.00	-15.	-5546.	-46.	-1817.	288.	-5138.	508.	4637.	
11.25	341.	-6060.	-92.	-1626.	314.	-2180.	3313.	5521.	
22.50	234.	-6694.	617.	-1239.	313.	-541.	4556.	6109.	
33.75	103.	-6966.	1176.	-638.	304.	-458.	3958.	5989.	
45.00	135.	-6631.	695.	-668.	322.	-2012.	2559.	4532.	
56.25	40.	-6143.	707.	-871.	350.	-3562.	1122.	2558.	
67.50	-222.	-5538.	226.	-1134.	340.	-3306.	1122.	3041.	
78.75	-710.	-5896.	-228.	-2252.	313.	-1314.	3721.	6220.	
90.00	-835.	-5525.	-922.	-2989.	326.	1530.	6890.	8453.	
101.25	-840.	-5103.	-846.	-2372.	342.	3205.	7624.	8090.	
112.50	-924.	-5356.	-463.	-2024.	303.	1672.	6060.	6805.	
123.75	-861.	-5838.	-382.	-2444.	250.	-1114.	4240.	5729.	
135.00	-536.	-5742.	-336.	-2350.	241.	-1504.	3639.	5297.	
146.25	-339.	-5499.	-413.	-2247.	250.	186.	4917.	6280.	
157.50	-560.	-5011.	-601.	-2693.	231.	1613.	6844.	8250.	
168.75	-515.	-5681.	-447.	-2696.	188.	2124.	7245.	9749.	
180.00	-944.	-5584.	-372.	-2536.	146.	1545.	6449.	9986.	
191.25	-605.	-5506.	-732.	-2985.	128.	-171.	5752.	9014.	
202.50	-192.	-5788.	-627.	-2581.	136.	-2281.	4157.	7577.	
213.75	101.	-6255.	146.	-2233.	152.	-4431.	1604.	6333.	
225.00	442.	-6572.	776.	-1571.	157.	-6171.	-8.	4811.	
236.25	536.	-7467.	1433.	-369.	135.	-6972.	-965.	2891.	
247.50	1254.	-7792.	2359.	1371.	76.	-8292.	-3312.	1365.	
258.75	1235.	-9246.	2822.	2183.	15.	-10866.	-5570.	-164.	
270.00	1159.	-8381.	2850.	2584.	-5.	-12018.	-6812.	-1781.	
281.25	1030.	-8162.	3163.	3338.	-10.	-10459.	-6106.	-842.	
292.50	712.	-8223.	3143.	2720.	-17.	-8254.	-3964.	3669.	
303.75	630.	-8054.	2053.	461.	21.	-5638.	36.	8021.	
315.00	910.	-5958.	630.	-1199.	115.	-2740.	3481.	9083.	
326.25	711.	-6049.	-164.	-1924.	156.	-2905.	3205.	7723.	
337.50	-54.	-6173.	-184.	-2505.	230.	-6232.	305.	5780.	
348.75	-432.	-6250.	59.	-2390.	253.	-7553.	-1185.	4502.	

RUN 39 POINT 13
RECTANGULAR TIP

VOR = 0.201 ALFS,U = -5.0 CLR/S = 0.11756 CP/S = 0.007014
MAT = 0.720 IF-IA = 13.0 CXR/S = 0.00347 RHO = 0.002342

BLADE NORMAL BENDING MOMENT

HARMONIC	.3K			.5K			.6R			.7R		
	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	587.0		-7170.4		1402.4		-51.6		308.0		-1718.2	
1	472.9	-704.3	-245.5	1136.1	112.7	-1374.1	308.0	-1257.6	-524.4			
2	52.4	102.0	297.6	69.1	-495.3	-150.7	-1257.6	-524.4				
3	-553.5	209.9	613.3	-385.3	-771.8	636.4	-907.9	1130.9				
4	-235.0	-276.3	205.3	16.5	-108.8	97.6	95.7	272.3				
5	22.9	125.4	-31.1	-61.5	44.4	-7.3	60.6	-198.4				
6	-218.6	-69.9	-139.7	-104.2	319.6	66.4	312.1	42.3				
7	29.3	54.4	71.6	38.9	-24.0	-29.1	79.1	-59.7				
8	-130.6	37.8	-245.9	32.7	39.7	-110.2	-272.6	-85.7				
9	-14.7	22.5	-64.1	-3.9	55.7	-77.5	-89.7	-45.6				
10	21.3	21.0	73.6	81.8	108.5	174.6	213.9	245.4				

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5K			.6R			.7R		
	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	180.0		-4190.1		-2393.1		4189.3					
1	97.0	272.6	-311.2	5596.8	-79.2	4996.5	-286.8	2924.7				
2	117.4	95.5	1926.8	-109.2	2209.1	-81.6	2850.9	447.1				
3	-15.4	5.4	-712.5	-1333.8	-203.2	-1863.5	-419.2	-2368.0				
4	-15.7	-44.9	-359.3	2037.7	-580.8	1695.9	-591.3	1343.7				
5	-45.3	-7.0	-2315.5	-476.4	-1891.8	-292.1	-1360.4	57.6				
6	-8.9	8.0	-754.0	-424.7	-1035.7	-385.5	-606.1	-353.4				
7	6.0	12.3	-106.2	435.8	-243.7	348.3	-278.6	278.2				
8	-11.9	-5.5	-491.3	124.0	-54.0	225.3	394.8	-30.6				
9	-2.8	-5.8	-103.0	45.3	-200.9	202.9	-45.6	242.6				
10	-0.4	8.2	161.0	150.3	-203.4	-358.7	-331.0	-123.4				

RUN 39 POINT 13
RECTANGULAR TIP

V/GR = J.201 ALFS,U = -5.0 CLR/S = J.11756 CP/S = J.007014
MAT = J.720 THETA = 13.0 CXK/S = J.00847 RHO = J.002342

PSI	AIAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LCAD	.5R	.6R	.7R
J.000	437.	-6680.	683.	-1550.	300.	-7305.	-4677.	3516.
11.25	840.	-6544.	525.	-1336.	403.	-3486.	-1451.	5332.
22.50	1349.	-6670.	461.	-1190.	511.	826.	2668.	7363.
33.75	1566.	-7060.	1235.	-541.	573.	2386.	3094.	7716.
45.00	1581.	-7370.	1574.	-197.	583.	944.	1509.	7006.
56.25	1489.	-7230.	1145.	-262.	553.	-1580.	-220.	4872.
67.50	1153.	-6754.	1055.	-215.	492.	-3267.	-2385.	2690.
78.75	520.	-6447.	614.	-1129.	391.	-3132.	-1916.	4096.
90.00	-130.	-6026.	-666.	-2490.	286.	-310.	2425.	7394.
101.25	-533.	-5192.	-930.	-1947.	251.	3864.	5224.	7925.
112.50	-825.	-5079.	46.	-679.	251.	4752.	3981.	6780.
123.75	-898.	-6135.	442.	-945.	201.	798.	1793.	6058.
135.00	-246.	-6791.	426.	-1173.	164.	-3436.	-603.	4000.
146.25	899.	-6523.	850.	-465.	215.	-4476.	-2564.	1950.
157.50	1482.	-6602.	1107.	-549.	270.	-3424.	-2518.	3579.
168.75	1117.	-7146.	1322.	-905.	257.	-1690.	-237.	6894.
180.00	522.	-7269.	1849.	-450.	221.	-107.	561.	8297.
191.25	450.	-7023.	1020.	-613.	173.	-4.	686.	8567.
202.50	729.	-6803.	738.	-1435.	97.	-1554.	748.	8577.
213.75	990.	-6837.	349.	-1508.	27.	-4451.	-1478.	7341.
225.00	977.	-7363.	1443.	-1285.	-24.	-8654.	-5351.	4698.
236.25	1021.	-7845.	1762.	-545.	-60.	-12083.	-8489.	882.
247.50	1288.	-7800.	2416.	1065.	-63.	-12739.	-10695.	-2838.
258.75	1491.	-8063.	3203.	3403.	-86.	-12336.	-11409.	-3588.
270.00	1631.	-8869.	3467.	3577.	-197.	-12437.	-10420.	-3236.
281.25	1938.	-9164.	3922.	4382.	-301.	-11892.	-10004.	-3062.
292.50	2136.	-9079.	4547.	5269.	-271.	-10673.	-10010.	-2168.
303.75	2023.	-9314.	4107.	3625.	-141.	-9211.	-7472.	1238.
315.00	2032.	-8962.	2761.	976.	13.	-6138.	-3020.	4997.
326.25	2120.	-7579.	1444.	-312.	161.	-2872.	-124.	6803.
337.50	1670.	-6607.	484.	-1099.	248.	-3520.	-503.	6372.
348.75	743.	-6622.	328.	-1727.	263.	-6878.	-3323.	4405.

RUN 39 POINT 22
RECTANGULAR TIP

V/OK = J.202 ALFS,U = 0.0 CLR/S = 0.12485 CP/S = 0.004916
MAT = J.710 IFFIA = 12.0 CXR/S = -0.00228 RHO = 0.002333

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN
0	656.9			-6735.5			920.5			-351.4		
1	439.5	-696.7		-111.6	994.1		106.6	-1164.3		380.8	-1461.3	
2	-214.7	145.7		651.6	-95.5		-951.5	19.0		-1822.4	-239.2	
3	-255.0	301.1		461.1	-492.9		-595.0	781.1		-861.8	1220.7	
4	-209.9	-103.0		120.0	-36.1		-84.2	-8.8		26.7	47.6	
5	111.6	192.4		-67.0	-51.1		-15.8	-77.7		-132.9	-343.7	
6	-138.3	217.5		-142.3	124.1		186.3	-199.0		167.2	-114.0	
7	-12.6	253.1		-1.6	300.3		15.9	-326.1		34.6	-62.5	
8	-45.6	180.5		-109.4	233.8		-24.6	-189.5		-174.6	37.7	
9	44.5	62.8		8.5	128.7		-31.1	-46.9		-59.1	91.4	
10	52.3	55.3		121.3	60.0		216.3	-42.0		331.5	38.3	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5R			.6R			.7R		
	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN
0	210.5			-2985.5			-359.8			4918.8		
1	83.6	243.2		-128.1	4734.2		-271.4	4063.7		-592.3	2462.7	
2	115.2	79.4		3029.2	-694.2		3369.7	-571.3		3939.3	26.9	
3	34.4	3.8		-843.7	-1171.8		-466.5	-1825.3		-184.2	-2096.9	
4	-20.0	-15.6		-365.2	2040.6		-417.6	2031.4		-183.4	1440.2	
5	-35.5	5.3		-3339.7	1174.6		-2769.0	1269.4		-1546.1	1406.0	
6	-31.0	-5.4		-533.1	179.5		-558.9	236.4		-276.7	-162.9	
7	-3.1	18.8		-203.6	1293.0		-321.6	1311.7		-358.6	625.1	
8	-17.1	7.2		-96.8	476.3		186.3	242.4		428.3	-120.9	
9	-12.3	-13.7		145.5	355.1		147.1	91.2		262.6	-93.0	
10	3.5	-20.2		216.4	249.7		-625.8	116.5		-646.7	121.8	

RUN 39 POINT 22
RECTANGULAR TIP

V/JR = J.202 ALFS, U = 0.0 CLR/S = 0.12485 CP/S = 0.004916
MAT = J.716 THETA = 12.0 CXR/S = -0.00228 RHO = 0.002333

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	305.	-5305.	-261.	-2501.	328.	-5100.	-2088.	5361.
11.25	1418.	-5275.	-1056.	-2472.	444.	1437.	4156.	8510.
22.50	1213.	-6173.	-129.	-1800.	612.	4041.	6687.	9982.
33.75	704.	-7155.	1549.	-295.	554.	3149.	4084.	8335.
45.00	753.	-7208.	1637.	458.	476.	506.	1348.	5618.
56.25	1007.	-6730.	974.	432.	464.	-3069.	-1215.	2295.
67.50	1003.	-6336.	789.	101.	433.	-4929.	-3187.	815.
78.75	522.	-6278.	259.	-1153.	309.	-3583.	-1067.	3897.
90.00	-234.	-6091.	-383.	-2087.	297.	-12.	3162.	7395.
101.25	-668.	-5481.	-280.	-1389.	371.	3976.	5349.	7792.
112.50	-686.	-5297.	-190.	-908.	323.	4899.	5843.	7695.
123.75	-550.	-5859.	-235.	-1409.	235.	847.	3745.	6581.
135.00	-103.	-6163.	236.	-1279.	248.	-3899.	-1215.	2956.
146.25	507.	-6096.	567.	-1028.	279.	-4228.	-2661.	2381.
157.50	559.	-6241.	299.	-1532.	273.	-740.	1679.	7034.
168.75	178.	-6428.	550.	-1495.	253.	2838.	5151.	10643.
180.00	-114.	-6384.	786.	-1224.	194.	3639.	5275.	10998.
191.25	-32.	-6341.	175.	-1946.	140.	1207.	4344.	10370.
202.50	320.	-6245.	-109.	-2375.	147.	-2086.	2086.	8392.
213.75	728.	-6336.	324.	-2009.	138.	-4585.	-656.	6453.
225.00	938.	-7041.	675.	-1817.	12.	-7198.	-2242.	6066.
236.25	1062.	-7696.	1512.	-538.	36.	-9641.	-5083.	3273.
247.50	1305.	-7840.	2838.	2100.	-16.	-10742.	-9048.	-1956.
258.75	1517.	-8176.	3205.	3435.	-83.	-11498.	-9664.	-3731.
270.00	1718.	-8620.	3104.	3656.	-127.	-12298.	-8714.	-3100.
281.25	1907.	-8673.	3822.	4602.	-187.	-11903.	-9794.	-3925.
292.50	1712.	-8934.	4172.	4405.	-233.	-10246.	-8675.	-2346.
303.75	1436.	-8968.	3015.	2056.	-139.	-6467.	-2616.	3382.
315.00	1859.	-7427.	1322.	268.	51.	-297.	3085.	7482.
326.25	1617.	-5723.	134.	-491.	193.	2148.	3925.	7688.
337.50	474.	-5943.	-111.	-1725.	282.	-3305.	245.	6308.
348.75	-455.	-6555.	213.	-2563.	320.	-8395.	-3797.	4757.

RUN 40 POINT 5
RECTANGULAR TIP

V/CR = 0.300 ALFS,U = -5.0 CLR/S = 0.07167 CP/S = 0.004164
MAT = 0.141 [PETA] = 10.0 CXR/S = 0.00534 RHT = 0.002286

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	173.5		-7096.4		562.9		1401.1		-1577.3		1757.4	
1	792.0	-1106.2	-1240.8	1625.8	-611.6	-727.6	-1670.0	691.5	-897.2	840.5		
2	-127.6	810.4	444.9	-727.6	379.7	478.4			400.9	634.1		
3	322.5	15.2	-369.8	-365.7	-155.6	20.1			-300.9	52.2		
4	107.4	214.7	-1.8	-18.6	-99.7	72.9			-285.6	110.3		
5	152.5	-111.7	13.5	-54.1	-65.0	-12.0			23.5	-55.1		
6	9.7	47.1	18.0	11.0	166.2	230.5			7.6	-59.2		
7	-185.8	-179.7	-181.4	-307.2	-32.0	63.8			30.3	20.9		
8	31.6	-16.6	57.4	-22.9	-12.0	4.7			-69.6	-12.1		
9	-36.3	1.2	-55.0	-28.4	-41.5	-30.5			-86.1	-88.4		
10	-22.0	9.1	-41.2	-19.6								

BLADE EDGEWISE BENDING MOMENT

BLADE EDGEWISE BENDING MOMENT											
HARMONIC	PITCH LINK			.5R		.6R		.7R			
	COS	SIN	LOAD	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	101.4			-3317.6		1773.2		3821.4			
1	98.2	123.1		-3296.3	5401.7	-4186.8	5093.0	-3211.1			3788.1
2	16.2	62.6		1293.6	-1516.4	1688.8	-1593.9	1467.8			-1330.9
3	-49.2	-1.6		-1060.2	223.3	-1001.1	-195.7	-613.3			-184.8
4	28.2	32.4		-237.1	541.2	163.7	428.8	267.4			232.7
5	-6.8	8.2		551.7	-364.4	642.6	-817.8	684.5			-679.9
6	-0.9	-7.8		-42.9	-358.4	118.8	-292.2	-86.9			-141.2
7	-1.1	-12.1		-529.0	-379.9	-509.2	-323.2	-78.0			309.3
8	4.7	-3.9		205.8	-102.3	194.2	-253.2	100.3			-153.3
9	8.0	1.3		-229.2	24.0	-175.2	74.3	-96.6			37.7
10	6.1	4.0		-45.0	31.7	43.8	192.3	82.6			258.9

RUN 40 POINT 5
RECTANGULAR TIP

V/CR = 0.300 ALFS,U = -5.0 CLR/S = 0.07167 CP/S = 0.004164
MAT = 0.731 TETA = 10.0 CXR/S = 0.00534 RHO = 0.002286

PSI	BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	NO	.5R	.6K	.7R	LCAD	.5R	.6R	.7R
0.00	1214.	-8453.	1492.	-997.	205.	-6754.	-1250.	2338.
11.25	1265.	-8787.	2083.	-468.	241.	-6623.	-1859.	2008.
22.50	1299.	-8279.	2052.	251.	287.	-4962.	-1385.	1223.
33.75	573.	-7727.	1516.	150.	360.	-3060.	308.	1704.
45.00	370.	-7462.	1208.	-459.	357.	-1633.	1825.	3116.
56.25	-146.	-7172.	889.	-1350.	285.	-1106.	2456.	4221.
67.50	-311.	-6586.	-77.	-2732.	266.	-1044.	3503.	5342.
78.75	-290.	-5751.	-1062.	-3656.	288.	-458.	4900.	6036.
90.00	-600.	-5246.	-1208.	-3545.	257.	214.	5151.	5747.
101.25	-1249.	-5444.	-966.	-3532.	186.	459.	5202.	6249.
112.50	-1546.	-5574.	-1110.	-3588.	111.	1697.	6944.	8181.
123.75	-1315.	-4555.	-1590.	-4164.	32.	4284.	9421.	9553.
135.00	-1304.	-4355.	-1542.	-4309.	-13.	5632.	10426.	9866.
146.25	-1881.	-4606.	-1674.	-4785.	-18.	4347.	9525.	10002.
157.50	-2342.	-5112.	-1663.	-4976.	14.	2582.	8427.	9810.
168.75	-1929.	-5062.	-1862.	-4789.	62.	2304.	8739.	9418.
180.00	-808.	-4785.	-2178.	-4613.	107.	2366.	9209.	8967.
191.25	16.	-5183.	-1718.	-4192.	106.	806.	7513.	7736.
202.50	451.	-6386.	-532.	-3307.	59.	-1677.	4624.	6318.
213.75	857.	-7547.	616.	-2073.	0.	-3932.	2399.	5164.
225.00	1370.	-8125.	1512.	-418.	-53.	-6363.	-437.	2331.
236.25	1615.	-8609.	2291.	1141.	-83.	-9610.	-4271.	-1658.
247.50	1528.	-9336.	2545.	1829.	-81.	-11811.	-6305.	-2895.
258.75	1454.	-9815.	3411.	1912.	-67.	-11263.	-5807.	-1341.
270.00	1505.	-9675.	3395.	1769.	-31.	-9222.	-4586.	-296.
281.25	1506.	-9116.	2725.	1263.	30.	-7541.	-3100.	-67.
292.50	1223.	-8444.	2050.	822.	60.	-6987.	-2152.	92.
303.75	549.	-8106.	1951.	693.	40.	-7951.	-3283.	-460.
315.00	-46.	-8159.	1969.	202.	27.	-9135.	-4600.	-696.
326.25	128.	-8038.	1585.	-528.	34.	-8171.	-3306.	533.
337.50	823.	-7515.	1094.	-760.	58.	-5985.	-1024.	1697.
348.75	1221.	-7624.	1014.	-859.	126.	-5646.	-476.	2044.

RUN 40 POINT 11
RECTANGULAR TIP

V/OR = 0.301 ALFS,U = -10.0 CLR/S = 0.06949 CP/S = 0.006331
MAT = 0.779 THEIA = 12.0 CRR/S = 0.01194 RHO = 0.002265

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN
0	457.3			-7556.5			1066.0			-638.7		
1	800.8	-795.5		-1086.1	1349.5		1183.4	-1409.9		1508.7	-1901.9	
2	-6.5	573.0		297.8	-472.0		-455.2	405.4		-805.0	423.8	
3	113.7	203.8		-114.6	-381.1		122.9	502.0		152.1	601.7	
4	146.4	223.0		36.2	-16.5		-181.2	-13.4		-326.8	27.2	
5	38.1	-10.1		-12.0	-26.5		-21.0	4.3		-110.3	-23.8	
6	-21.9	28.4		19.9	14.2		-34.9	-14.0		22.3	-16.3	
7	-125.6	-81.5		-117.2	-123.9		110.1	81.3		6.4	-22.7	
8	1.4	11.6		25.4	22.6		-4.5	1.5		38.6	13.3	
9	5.7	12.9		-1.3	3.4		-43.8	-13.2		-38.7	-13.2	
10	4.9	1.5		-1.8	-8.5		-28.0	-13.9		-29.6	-34.6	

BLADE EDGEWISE BENDING MOMENT

PITCH LINK

HARMONIC	LOAD			.5R			.6R			.7R		
	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN	CCS	SIN	SIN
0	84.9			-4007.5			1677.0			3026.1		
1	146.0	161.6		-1981.6	4989.8		-2926.8	4697.5		-2408.6	3514.1	
2	43.4	63.6		690.2	-1111.7		1123.3	-1087.9		1147.1	-727.1	
3	-61.3	33.4		-746.5	92.8		-624.7	-353.0		-443.0	-291.4	
4	26.0	11.2		363.2	1512.0		657.4	1451.1		738.3	932.5	
5	-28.6	3.3		283.0	-1618.5		331.1	-1425.9		362.7	-1051.1	
6	-0.1	-3.8		-19.5	-309.1		7.1	-282.8		-122.8	-242.2	
7	-1.3	-4.8		-213.6	-172.4		-214.4	-135.4		76.1	71.1	
8	3.9	-1.4		-24.0	24.3		-72.7	-51.9		-49.2	-99.0	
9	-2.7	-5.0		73.7	36.1		177.7	48.8		128.6	9.3	
10	-0.3	-1.8		-4.7	26.3		46.5	57.6		26.6	138.4	

RUN 40 POINT 11
RECTANGULAR TIP

V/OR = 0.301 ALFS,U = -10.0 CLR/S = 0.06949 CP/S = 0.006331
MAT = 0.779 THETA = 12.0 CXR/S = 0.01194 RHO = 0.002265

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LCAD	.5R	.6R	.7R
0.00	1454.	-8490.	1714.	-221.	210.	-5587.	182.	2482.
11.25	1763.	-8671.	1991.	16.	289.	-5629.	-282.	1926.
22.50	1874.	-8542.	2118.	425.	389.	-4665.	-34.	1509.
33.75	1576.	-8278.	1949.	520.	445.	-2820.	1461.	2359.
45.00	928.	-8017.	1748.	251.	428.	-1458.	2562.	3369.
56.25	321.	-7652.	1378.	-402.	371.	-1380.	2646.	3601.
67.50	70.	-7063.	533.	-1467.	306.	-1776.	3132.	4042.
78.75	2.	-6392.	-318.	-2361.	248.	-1673.	4119.	4829.
90.00	-246.	-5579.	-604.	-2632.	203.	-847.	4893.	5357.
101.25	-652.	-5938.	-582.	-2674.	148.	796.	6370.	6440.
112.50	-886.	-5926.	-656.	-2733.	65.	2801.	8556.	7985.
123.75	-877.	-5687.	-736.	-2622.	-6.	3653.	9220.	8134.
135.00	-912.	-5531.	-686.	-2589.	-31.	2440.	7753.	7065.
146.25	-1118.	-5757.	-590.	-2930.	-16.	168.	6011.	6592.
157.50	-1191.	-6044.	-603.	-3303.	27.	-1451.	5212.	6656.
168.75	-829.	-6002.	-814.	-3387.	84.	-1517.	5510.	6633.
180.00	-211.	-5868.	-989.	-3258.	106.	-417.	6656.	7050.
191.25	247.	-6153.	-719.	-2908.	49.	205.	7384.	7548.
202.50	438.	-6855.	15.	-2228.	-55.	-1314.	5871.	6698.
213.75	592.	-7644.	852.	-1213.	-139.	-4901.	2184.	4056.
225.00	869.	-8107.	1549.	14.	-171.	-8885.	-2083.	415.
236.25	1157.	-8508.	2138.	1109.	-168.	-11632.	-5179.	-2527.
247.50	1297.	-9058.	2762.	1812.	-141.	-12271.	-6123.	-3081.
258.75	1379.	-9605.	3315.	2235.	-96.	-10652.	-5003.	-1607.
270.00	1584.	-9842.	3401.	2403.	-59.	-7821.	-2724.	-28.
281.25	1739.	-9318.	3029.	2217.	-47.	-6001.	-1009.	520.
292.50	1472.	-9031.	2752.	1936.	-30.	-6708.	-1590.	-161.
303.75	885.	-8857.	2667.	1709.	3.	-8809.	-3704.	-1500.
315.00	525.	-8614.	2361.	1231.	26.	-5677.	-4444.	-1895.
326.25	614.	-8275.	1894.	568.	42.	-8393.	-2941.	-683.
337.50	691.	-8056.	1643.	140.	87.	-6483.	-1027.	954.
348.75	1157.	-8164.	1600.	-96.	151.	-5534.	45.	2097.

RUN 40 POINT 20
RECTANGULAR TIP

V/GR = 0.300 ALFS+U = 0.0 CLR/S = 0.11427 CP/S = 0.004649
MAT = 2.733 IFCIA = 12.0 CXR/S = 0.00009 RHO = 0.002247

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	492.5		-7126.2		618.6		-1841.5	
1	1048.7	-1139.3	-1534.1	1783.6	1644.8	-1838.7	1938.5	-2417.4
2	-220.0	662.7	744.7	-574.0	-984.9	569.0	-1570.3	749.6
3	300.1	9.3	-281.0	-523.2	314.6	664.2	317.3	836.6
4	342.0	88.1	-48.2	68.4	-282.2	96.8	-654.7	308.7
5	284.2	-163.1	-136.7	-25.6	-90.7	104.3	-546.5	236.0
6	154.2	64.6	39.4	-3.4	-116.5	66.4	-23.6	11.1
7	-241.5	-368.7	-287.5	-575.1	181.3	490.1	-54.9	-22.4
8	174.1	-100.6	284.2	-149.5	-182.6	219.1	89.0	7.2
9	19.4	-65.5	60.2	-102.1	-51.2	139.3	49.1	-37.0
10	-8.9	13.7	-38.5	-125.9	-158.5	-130.9	-165.3	-327.6

BLADE EDGEWISE BENDING MOMENT

	PITCH LINK		.5R		.6R		.7R	
	LOAD		CCS	SIN	CCS	SIN	CCS	SIN
HARMONIC	CCS	SIN	CCS	SIN	CCS	SIN	CCS	SIN
0	95.2		-2860.3		4159.3		4540.0	
1	110.5	225.3	-5245.5	6534.9	-5941.9	5767.6	-4259.3	4086.2
2	85.3	104.0	3027.9	-1407.2	3529.3	-1452.7	3175.4	-1273.7
3	-36.5	-17.2	-1390.2	162.7	-1213.6	-445.1	-619.9	-279.9
4	23.8	20.7	146.0	2892.9	920.3	2094.5	1229.9	1036.8
5	-14.7	11.0	-2275.0	918.8	-1739.2	657.3	-801.1	304.8
6	-41.1	-23.4	115.5	-264.2	435.1	-402.1	136.6	-210.0
7	-30.5	-18.3	-653.5	-850.0	-398.8	-956.1	89.2	133.2
8	-2.4	20.0	638.8	-421.7	527.2	-765.3	-67.8	-406.3
9	-3.1	7.0	-51.6	-339.8	-95.0	-406.2	-304.6	-118.9
10	-1.9	-35.2	-66.1	-265.3	334.6	190.0	264.5	376.1

RUN 40 PCINT 20
RECTANGULAR TIP

V/OR = 0.300 ALFS,U = 0.0 CLR/S = 0.11427 CP/S = 0.004645
MAT = 0.763 IPETA = 12.0 CXR/S = 0.00009 RHO = 0.002247

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3K	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	2345.	-8324.	893.	-2471.	189.	-8614.	517.	3383.
11.25	1560.	-9452.	2555.	-1513.	297.	-6014.	299.	4135.
22.50	1281.	-8380.	2633.	371.	490.	-46.	3592.	4308.
33.75	1333.	-6570.	1195.	634.	511.	2831.	6951.	4092.
45.00	835.	-7239.	1034.	-455.	410.	-945.	4130.	2693.
56.25	183.	-7880.	1564.	-1590.	371.	-6111.	-652.	1422.
67.50	337.	-7215.	235.	-3183.	328.	-6895.	309.	2578.
78.75	718.	-5718.	-1394.	-4212.	295.	-2811.	5069.	4732.
90.00	73.	-4942.	-1336.	-3675.	348.	2648.	8728.	6545.
101.25	-1224.	-5410.	-821.	-3448.	280.	5596.	11269.	9132.
112.50	-1722.	-5706.	-1016.	-3995.	54.	5989.	12531.	10711.
123.75	-1274.	-4737.	-1400.	-3938.	-21.	6008.	11768.	9356.
135.00	-1131.	-3946.	-1902.	-4331.	43.	5104.	10777.	8387.
146.25	-1886.	-4617.	-2135.	-5699.	27.	3141.	10639.	10001.
157.50	-2548.	-5354.	-1753.	-6035.	35.	3869.	11960.	12198.
168.75	-1939.	-4807.	-2076.	-5631.	128.	8158.	16056.	14272.
180.00	-477.	-3565.	-3105.	-5874.	138.	10618.	19294.	15174.
191.25	355.	-4314.	-2613.	-5454.	104.	7425.	15847.	12439.
202.50	300.	-5850.	-757.	-4022.	99.	1057.	8872.	8275.
213.75	559.	-7354.	409.	-2795.	14.	-4037.	4552.	5713.
225.00	1438.	-7742.	1146.	-920.	-87.	-6607.	1681.	2416.
236.25	1553.	-8088.	2306.	1490.	-107.	-8927.	-1861.	-1508.
247.50	1534.	-5434.	3212.	2138.	-158.	-12090.	-4029.	-1989.
258.75	1516.	-10514.	3761.	1938.	-305.	-13740.	-4581.	-1004.
270.00	2350.	-10330.	4163.	2390.	-209.	-12954.	-6112.	-2293.
281.25	2055.	-3870.	3705.	2098.	-54.	-11541.	-5312.	-2760.
292.50	1761.	-9352.	2732.	1156.	-169.	-9425.	-2089.	-716.
303.75	1038.	-8515.	2466.	1428.	-211.	-6788.	-252.	78.
315.00	157.	-8249.	2595.	1313.	-90.	-7022.	-1524.	-527.
326.25	58.	-8515.	2142.	-561.	45.	-9826.	-3077.	208.
337.50	1200.	-7514.	1074.	-1528.	143.	-10452.	-2090.	1498.
348.75	2357.	-7157.	235.	-2215.	191.	-9131.	195.	2331.

RUN 40 POINT 13
RECTANGULAR TIP

V/CR = 0.239 ALFS,U = -10.0 CLK/S = 0.09842 CP/S = 0.009803
MAT = 0.781 IF-IA = 15.0 CXN/S = 0.01778 RHO = 0.002256

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS
0	1101.2		-7984.9		1372.9		1480.2		-379.7		-2003.9	
1	1008.9	-753.9	-1242.2	1372.9		1434.8	-1419.8		1878.0		45.3	
2	-70.3	658.8	403.0	-365.8		-630.5	180.1		-1175.3		689.1	
3	-124.1	210.3	155.0	-420.5		-120.3	610.9		-48.5		103.5	
4	234.3	134.0	16.8	30.5		-332.1	-51.4		-723.4			
5	-37.8	-178.4	30.0	-50.5		61.3	118.4		67.5		141.4	
6	36.8	80.0	41.1	62.6		-97.1	-54.9		-0.5		4.5	
7	-141.6	-99.8	-125.6	-115.4		149.1	77.1		21.5		-18.0	
8	-37.9	10.2	-31.7	20.0		52.2	28.9		59.3		48.2	
9	-15.5	-13.5	-21.6	-35.0		-16.3	-6.5		-43.8		-33.6	
10	-14.9	-6.0	-0.6	-36.5		48.2	-32.3		56.4		-87.8	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	.5R			.6R			.7R		
	CCS	SIN	COS	CCS	SIN	COS	CCS	SIN	COS
0	59.5		-4180.4		1313.2		2930.6		
1	170.0	215.2	-3113.9	5873.7		-4296.3	5155.5		3886.7
2	76.8	138.6	988.8	-737.8		1728.2	-419.3		-35.7
3	-101.0	42.1	-340.1	20.5		-247.5	-571.7		-328.7
4	54.6	7.0	-533.5	2574.8		198.1	2412.2		1476.8
5	-22.8	-30.3	535.4	-812.5		294.1	-861.4		-652.4
6	-0.8	-2.7	110.6	-79.9		264.0	-61.6		-229.5
7	0.1	-4.0	-442.3	-387.9		-505.3	-337.5		-56.9
8	3.7	-7.8	-161.6	10.2		-177.4	-156.4		-176.7
9	14.5	3.6	-9.4	-95.7		82.6	-28.4		-10.2
10	0.0	11.5	-118.5	-31.8		-264.4	84.9		167.4

RUN 40 PCINT 13
RECTANGULAR TIP

V/OR = 0.29% ALFS,U = -10.0 CLR/S = 0.09842 CP/S = 0.009805
MAT = 0.781 THETA = 15.0 CXR/S = 0.01778 RHO = 0.002256

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1934.	-8761.	2029.	-289.	256.	-7215.	-1611.	1568.
11.25	2251.	-8913.	2192.	-27.	334.	-5200.	-56.	2456.
22.50	2568.	-8759.	2373.	609.	409.	-2704.	1470.	2873.
33.75	2413.	-8752.	2582.	935.	535.	-1794.	1766.	2868.
45.00	1961.	-3345.	2503.	614.	588.	-2244.	1364.	2987.
56.25	1409.	-8361.	2013.	37.	496.	-2645.	983.	2722.
67.50	1310.	-7551.	1154.	-895.	402.	-2558.	1500.	2829.
78.75	874.	-7024.	266.	-2029.	336.	-1896.	3212.	4183.
90.00	296.	-6616.	-116.	-2492.	191.	-523.	4781.	5414.
101.25	-234.	-6302.	-196.	-2438.	38.	1551.	6347.	6358.
112.50	-485.	-6387.	-503.	-2551.	-24.	4030.	9088.	8047.
123.75	-528.	-5818.	-645.	-2377.	-82.	5538.	10650.	8634.
135.00	-700.	-5584.	-203.	-1890.	-153.	4525.	8649.	7107.
146.25	-1005.	-6032.	184.	-2200.	-122.	1575.	5806.	6420.
157.50	-997.	-6519.	-14.	-3215.	-8.	-1115.	5018.	7483.
168.75	-381.	-6574.	-517.	-3853.	83.	-1898.	5826.	8281.
180.00	556.	-6352.	-588.	-4038.	133.	-574.	7734.	9049.
191.25	1150.	-5409.	-1015.	-3848.	120.	978.	9420.	9939.
202.50	1065.	-6948.	-219.	-2826.	1.	115.	7981.	8698.
213.75	776.	-7661.	903.	-1268.	-158.	-3135.	3858.	5312.
225.00	921.	-8156.	1632.	98.	-265.	-6752.	-34.	1809.
236.25	1414.	-8561.	2161.	1118.	-291.	-10193.	-3500.	-1366.
247.50	1333.	-9263.	2850.	1746.	-237.	-13150.	-6588.	-3365.
258.75	2139.	-10018.	3492.	2100.	-152.	-13655.	-7279.	-2991.
270.00	2433.	-10271.	3875.	2643.	-109.	-11189.	-5569.	-1805.
281.25	2465.	-10101.	3972.	3233.	-111.	-8236.	-3661.	-1412.
292.50	2145.	-9897.	3856.	3427.	-135.	-7216.	-2927.	-1452.
303.75	1561.	-9710.	3760.	3338.	-161.	-8579.	-4134.	-2358.
315.00	1130.	-9448.	3527.	2789.	-135.	-10763.	-6228.	-3756.
326.25	1242.	-9339.	2763.	1471.	-50.	-11191.	-6045.	-3086.
337.50	1675.	-8562.	1926.	195.	39.	-9551.	-3616.	-596.
348.75	1878.	-8442.	1770.	-267.	138.	-8105.	-2142.	928.

RUN 41 POINT 13
RECTANGULAR TIP

V/CB = 0.378 ALFS,U = -5.0 CLR/S = 0.08014 CP/S = 0.006097
 MAT = 1.625 IF,TA = 12.0 CXR/S = 0.00605 RHO = 0.002226

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	436.1		-6653.9		711.9		1767.5		-2112.0		-1029.5	
1	1128.7	-1370.1	-1470.4	1648.9							2191.3	-2918.7
2	-171.6	1591.3	400.9	-1594.5			-450.2	1970.1			-595.7	2385.4
3	349.7	-245.7	-831.9	-134.5			1037.7	390.6			1355.3	844.1
4	765.0	619.0	-13.6	-135.8			-370.7	-15.2			-1015.6	-303.6
5	-175.7	-591.7	-115.5	-27.7			45.0	396.4			-196.4	856.9
6	236.6	131.0	124.3	29.1			-175.7	-76.7			-207.8	-144.0
7	-350.7	269.6	-441.6	232.2			406.0	-287.4			-4.2	-60.0
8	119.1	7.1	217.1	-15.8			-81.7	-32.6			166.3	-17.8
9	15.5	63.1	-0.5	104.7			-23.3	18.6			-17.4	168.2
10	-58.6	56.8	-105.3	-24.4			-0.8	-130.1			-152.2	-144.3

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			BLADE EDGEWISE BENDING MOMENT									
	LOAD			.5R		.6R		.7R					
	COS	SIN		COS	SIN	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	47.7			-2729.1		5224.5		4032.8					
1	205.1	90.1		-4083.9	5760.8	-5103.9	6019.5	-4356.4	5388.4				
2	-13.5	134.0		973.4	-4268.7	1084.1	-5014.2	843.9	-3973.0				
3	-116.4	-44.6		-594.3	1615.0	-912.4	521.0	-811.4	282.9				
4	118.1	62.5		-103.0	1347.8	640.7	1415.7	1468.0	1613.7				
5	-14.3	-30.3		-56.2	2076.2	-4.8	1150.7	341.7	354.4				
6	-8.1	-3.3		553.5	-721.9	619.8	-567.8	496.5	-448.3				
7	-15.1	15.6		-1162.0	551.6	-1117.7	735.7	-95.8	296.6				
8	3.8	-5.3		341.3	-127.9	23.4	-145.6	-422.0	-212.5				
9	-4.5	2.6		175.2	253.7	238.9	64.6	207.8	-172.8				
10	6.1	-20.1		-378.4	11.4	-188.9	341.1	88.5	285.1				

RUN 41 POINT 13
RECTANGULAR TIP

V/CR = 0.373 ALFS,U = -5.0 CLR/S = 0.08014 CP/S = 0.006097
MAT = 0.825 IPETA = 12.0 CXR/S = 0.00605 RHO = 0.002226

FSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.34	.5R	.64	.7R	LCAD	.54	.6R	.7R
0.00	2251.	-8687.	2660.	494.	211.	-7063.	504.	1794.
11.25	2806.	-8650.	3062.	1983.	261.	-3265.	3112.	2105.
22.50	2233.	-8520.	3477.	3026.	342.	-2033.	3114.	1222.
33.75	1253.	-8464.	3381.	2656.	354.	-3697.	1539.	301.
45.00	643.	-7757.	2391.	1341.	319.	-5409.	540.	-367.
56.25	652.	-6814.	574.	-805.	360.	-6213.	842.	494.
67.50	462.	-6123.	-439.	-3184.	402.	-5023.	3745.	3838.
78.75	112.	-5454.	-1200.	-3908.	349.	-1071.	7842.	6963.
90.00	-600.	-5239.	-914.	-3601.	275.	2285.	9952.	8680.
101.25	-1120.	-5489.	-1182.	-4663.	161.	3563.	12134.	11797.
112.50	-836.	-4752.	-2637.	-5951.	-47.	6123.	16510.	15011.
123.75	-1068.	-3244.	-3441.	-5549.	-239.	8910.	18367.	14038.
135.00	-3011.	-3056.	-2952.	-4859.	-363.	7613.	15914.	11451.
146.25	-4541.	-3949.	-2432.	-5064.	-436.	6448.	14952.	12071.
157.50	-4541.	-3621.	-2673.	-5017.	-333.	8479.	17161.	13789.
168.75	-2090.	-2647.	-2387.	-5185.	..	9248.	17721.	13224.
180.00	356.	-3168.	-3600.	-6163.	101.	4379.	14304.	11222.
191.25	1508.	-5151.	-2090.	-5793.	101.	-2756.	8320.	8423.
202.50	1497.	-7132.	554.	-2985.	64.	-7357.	2667.	4626.
213.75	1513.	-8057.	2389.	603.	-43.	-7774.	541.	1071.
225.00	1770.	-8392.	3444.	3734.	-217.	-6231.	464.	-1827.
236.25	1713.	-9151.	4750.	5558.	-285.	-7628.	-2020.	-4320.
247.50	1787.	-10067.	5355.	5106.	-206.	-12016.	-5475.	-5178.
258.75	2415.	-9774.	4273.	1314.	-67.	-13275.	-5076.	-3892.
270.00	3237.	-8495.	2686.	1754.	52.	-9563.	-1205.	-1381.
281.25	2456.	-7742.	1834.	553.	158.	-5448.	2567.	1673.
292.50	850.	-7622.	1689.	-48.	66.	-3623.	4176.	3416.
303.75	-398.	-7142.	1655.	258.	-18.	-3740.	3226.	1983.
315.00	-445.	-8461.	1120.	393.	-5.	-5412.	1511.	-686.
326.25	392.	-6351.	510.	-146.	20.	-7555.	724.	-1680.
337.50	1085.	-7130.	1642.	-475.	63.	-9113.	-290.	-1085.
348.75	1495.	-6324.	2281.	-282.	153.	-9410.	-1158.	275.

RUN 41 POINT 18
RECTANGULAR TIP

V/CR = 0.377 ALFS,U = -10.0 CLR/S = 0.07196 CP/S = 0.008521
 MAT = 0.826 THEIA = 14.0 CXR/S = 0.01215 RHO = 0.002217

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	787.1		-7124.0		1256.4		57.1	
1	1076.3	-1045.8	-1328.6	1329.9	1625.3	-1713.3	2020.6	-2413.7
2	-142.7	1157.7	275.3	-1107.1	-335.6	1346.7	-558.8	1638.3
3	300.9	115.8	-539.0	-353.6	663.6	615.6	852.3	992.6
4	642.6	425.0	-4.2	-114.6	-324.3	94.3	-813.6	84.0
5	-255.0	-414.7	-47.9	-4.0	65.2	263.9	-13.7	595.3
6	168.0	115.6	94.3	18.0	-126.7	-75.5	-80.2	-155.0
7	-316.9	179.2	-323.1	131.3	318.3	-169.8	26.8	-37.1
8	92.3	20.9	141.2	41.7	-68.1	-28.0	95.5	27.6
9	-19.4	37.9	-34.1	62.9	27.2	12.5	-16.2	88.5
10	-14.3	34.6	-37.6	-17.2	-10.9	-88.6	-74.5	-119.5

BLADE EDGEWISE BENDING MOMENT

PITCH LINK

LOAD

HARMONIC	.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN
0	25.5		-3650.4		3916.5	
1	242.6	96.2	-2718.6	5172.7	-4022.3	5307.6
2	15.4	131.2	182.3	-3187.8	450.7	-3656.1
3	-108.2	-1.5	-82.7	1025.8	-308.9	396.9
4	117.0	13.4	753.6	2717.1	1329.7	2443.8
5	-26.0	-15.7	-350.3	2612.9	-468.4	1883.8
6	-6.1	-17.5	253.3	-670.4	329.9	-504.8
7	-7.5	3.0	-906.3	439.0	-906.4	530.9
8	-2.7	-0.5	234.6	6.0	38.3	-91.4
9	1.6	-1.9	-14.9	132.6	47.1	-7.4
10	0.9	-15.1	-125.8	147.4	-43.3	438.5

3041.5
-3532.5
600.2
-337.4
1885.2
-268.1
149.2
-162.8
-273.5
146.6
99.0

4774.9
-2906.3
38.3
2029.2
1229.7
-371.9
257.5
-210.0
-138.8
451.4

RUN 41 POINT 18
RECTANGULAR TIP

V/OR = 0.377 ALFS,U = -10.0 CLR/S = 0.07196 CP/S = 0.008521
MAT = 0.826 THETA = 14.0 CXR/S = 0.01215 RHO = 0.002217

PSI	NORMAL BENDING MOMENT			PITCH LINK			EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD		.5R	.6R	.7R
0.00	2319.	-8928.	3090.	1535.	257.		-6425.	363.	1347.
11.25	2932.	-8869.	3387.	2781.	290.		-1371.	4280.	3264.
22.50	2710.	-8864.	3739.	3617.	371.		-61.	4665.	2823.
33.75	1961.	-8846.	3696.	3323.	402.		-2785.	2246.	1214.
45.00	1380.	-8253.	2890.	2186.	377.		-6488.	-669.	-1021.
56.25	1011.	-7315.	1575.	419.	377.		-8546.	-1905.	-1930.
67.50	689.	-6552.	181.	-1648.	360.		-6739.	1236.	1414.
78.75	307.	-5973.	-591.	-2676.	286.		-1402.	6953.	6422.
90.00	-207.	-5708.	-545.	-2593.	203.		3481.	10803.	9366.
101.25	-490.	-5774.	-676.	-2985.	74.		5661.	13282.	11792.
112.50	-323.	-5430.	-1427.	-3685.	-138.		6230.	15344.	13310.
123.75	-539.	-4596.	-1863.	-3394.	-327.		5252.	14070.	10673.
135.00	-1835.	-4414.	-1533.	-2848.	-415.		2787.	10561.	7307.
146.25	-3199.	-4570.	-1099.	-2984.	-392.		1686.	9902.	8229.
157.50	-2584.	-4948.	-1196.	-3195.	-234.		3286.	12008.	10589.
168.75	-1117.	-4275.	-1896.	-3522.	-31.		4387.	13223.	10801.
180.00	747.	-4382.	-2309.	-4204.	52.		1720.	11681.	9656.
191.25	1263.	-5701.	-1237.	-3853.	15.		-3788.	6904.	7005.
202.50	919.	-7103.	742.	-1750.	-70.		-7862.	1703.	3089.
213.75	916.	-7721.	2036.	905.	-201.		-7802.	256.	428.
225.00	1327.	-7989.	2802.	3174.	-297.		-6590.	493.	-1379.
236.25	1639.	-8655.	3863.	4517.	-271.		-8580.	-2141.	-3740.
247.50	2078.	-9574.	4482.	4321.	-182.		-12208.	-5104.	-4614.
258.75	2851.	-9657.	4004.	3331.	-77.		-12720.	-4552.	-3340.
270.00	3229.	-8530.	3220.	2778.	49.		-5425.	-1709.	-1756.
281.25	2545.	-8322.	2788.	2493.	90.		-5262.	1507.	337.
292.50	1173.	-8123.	2622.	2161.	5.		-2979.	3572.	2155.
303.75	112.	-7812.	2453.	1982.	-62.		-3737.	2571.	1098.
315.00	75.	-7258.	1891.	1513.	-40.		-6386.	115.	-1375.
326.25	762.	-7013.	1225.	611.	19.		-8954.	-1228.	-2304.
337.50	1256.	-7528.	1453.	192.	117.		-10748.	-2403.	-2245.
348.75	1638.	-8444.	2436.	608.	221.		-10444.	-2744.	-1277.

RUN 41 PGINT 27
RECTANGULAR IIP

V/CX = 0.377 ALFS, U = 0.0 CLR/S = 0.10227 CP/S = 0.005464
MAY = 0.825 IFETA = 12.0 CXH/S = 0.000374 RHO = 0.002205

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R			.5R			.6R			.7R		
	CCS	SIN		CCS	SIN		CCS	SIN		CCS	SIN	
0	319.4			-6354.3			378.4			-332.5		
1	1416.7	-1450.2		-1693.5	1898.4		1987.4	-2396.8		2432.5	-3219.3	
2	-312.5	1722.0		558.2	-1870.6		-609.0	2395.9		-858.5	2892.2	
3	195.4	10.0		-592.8	-418.8		748.3	635.6		932.7	906.9	
4	516.0	646.8		23.4	-219.5		-445.5	68.4		-1136.8	-245.7	
5	-55.9	123.3		-234.9	44.0		15.1	-11.9		-403.4	194.6	
6	267.9	516.4		39.9	74.9		-116.5	-358.6		-194.7	-507.2	
7	-425.5	472.3		-503.8	354.5		400.7	-456.8		-24.4	-138.7	
8	175.8	46.1		220.2	47.8		-132.0	-89.8		108.1	-21.9	
9	54.2	125.7		57.7	208.8		-2.9	-78.5		76.5	149.7	
10	-45.2	42.0		-75.1	-5.4		80.2	-117.3		-6.3	-105.8	

BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK			.5R			.6R			.7R		
	CCS	SIN		CCS	SIN		CCS	SIN		CCS	SIN	
0	28.1			-1867.4			6143.4			5157.7		
1	213.9	172.6		-5184.1	6893.0		-6119.1	6759.2		-5126.0	5734.7	
2	65.4	139.0		2081.4	-6197.1		1891.9	-7004.9		1503.0	-5545.8	
3	-69.5	-23.1		-2116.1	2143.1		-2029.5	1391.5		-1470.4	1120.8	
4	103.0	4.1		1740.2	2942.9		2300.0	2940.5		3085.6	2948.7	
5	-17.7	-84.8		-1424.3	-361.7		-862.2	-353.4		17.2	-784.8	
6	-81.5	-86.4		-328.0	-1544.2		-179.5	-903.0		-131.5	-933.6	
7	-68.0	-6.5		-1165.7	973.7		-1112.8	1130.9		-140.1	302.5	
8	-20.5	5.8		-16.6	109.9		-341.4	32.8		-882.3	-137.7	
9	4.4	1.4		250.3	780.0		70.0	555.5		-68.4	259.7	
10	29.2	-1.6		-229.8	286.8		-219.1	699.1		57.1	714.3	

RUN 41 POINT 27
RECTANGULAR TIP

V/CR = 0.377 ALFS,U = 0.0 CLR/S = 0.10227 CP/S = 0.005464
MAT = 0.825 THETA = 12.0 CXR/S = 0.00074 RHO = 0.002209

PSI	NORMAL BENDING MOMENT			PITCH LINK		EDGEWISE BENDING MOMENT		
	.3K	.5R	.6K	.7R	LOAD	.5R	.6R	.7R
0.00	2499.	-8548.	2334.	588.	251.	-8330.	-459.	2042.
11.25	4317.	-8200.	1876.	1308.	215.	-4090.	3828.	3649.
22.50	3421.	-8454.	2933.	3000.	372.	-2542.	3588.	2398.
33.75	1242.	-8791.	4161.	4496.	510.	-2726.	1317.	658.
45.00	113.	-8120.	3527.	4016.	411.	-3242.	686.	-80.
56.25	239.	-7141.	1581.	1269.	256.	-5995.	4.	-466.
67.50	809.	-6155.	-513.	-1953.	346.	-7530.	1353.	1619.
78.75	924.	-4958.	-2002.	-3616.	361.	-3500.	6350.	5815.
90.00	-178.	-4413.	-2220.	-3945.	267.	2527.	11048.	9679.
101.25	-1611.	-4578.	-2158.	-4538.	161.	7327.	15558.	14556.
112.50	-1512.	-3768.	-3262.	-5323.	-30.	11827.	21134.	18705.
123.75	-2057.	-2293.	-4401.	-5367.	-280.	12982.	22005.	16983.
135.00	-3657.	-2373.	-4033.	-5330.	-372.	9010.	17530.	13205.
146.25	-5262.	-3375.	-3408.	-5604.	-307.	7110.	16390.	14196.
157.50	-4483.	-2945.	-3694.	-5461.	-185.	11289.	20153.	16899.
168.75	-1893.	-1895.	-4324.	-5215.	-2.	14456.	22141.	16913.
180.00	137.	-2613.	-4023.	-5430.	125.	11090.	19649.	15617.
191.25	670.	-4366.	-2154.	-4622.	77.	3902.	13723.	12877.
202.50	515.	-6788.	462.	-1781.	-18.	-2894.	6330.	7580.
213.75	853.	-7659.	2191.	1646.	-108.	-3241.	398.	1233.
225.00	1539.	-8099.	3131.	4395.	-274.	-12738.	-4488.	-5336.
236.25	1860.	-8930.	4423.	6099.	-399.	-16405.	-9226.	-9680.
247.50	2043.	-9925.	5254.	6015.	-353.	-17143.	-9677.	-7784.
258.75	2689.	-9916.	4442.	4545.	-191.	-12992.	-4258.	-2282.
270.00	3189.	-8844.	3112.	3341.	40.	-5862.	2110.	2106.
281.25	2539.	-8119.	2523.	2523.	156.	-923.	6418.	6065.
292.50	1137.	-8125.	2182.	1358.	-113.	-2022.	6649.	7272.
303.75	232.	-7570.	1376.	521.	-482.	-6522.	2534.	1921.
315.00	219.	-6054.	192.	506.	-386.	-7526.	279.	-3029.
326.25	203.	-5243.	-376.	727.	72.	-4986.	2714.	-1038.
337.50	-380.	-6395.	721.	618.	370.	-5790.	2348.	1631.
348.75	137.	-8136.	2303.	521.	371.	-9314.	-1561.	1123.

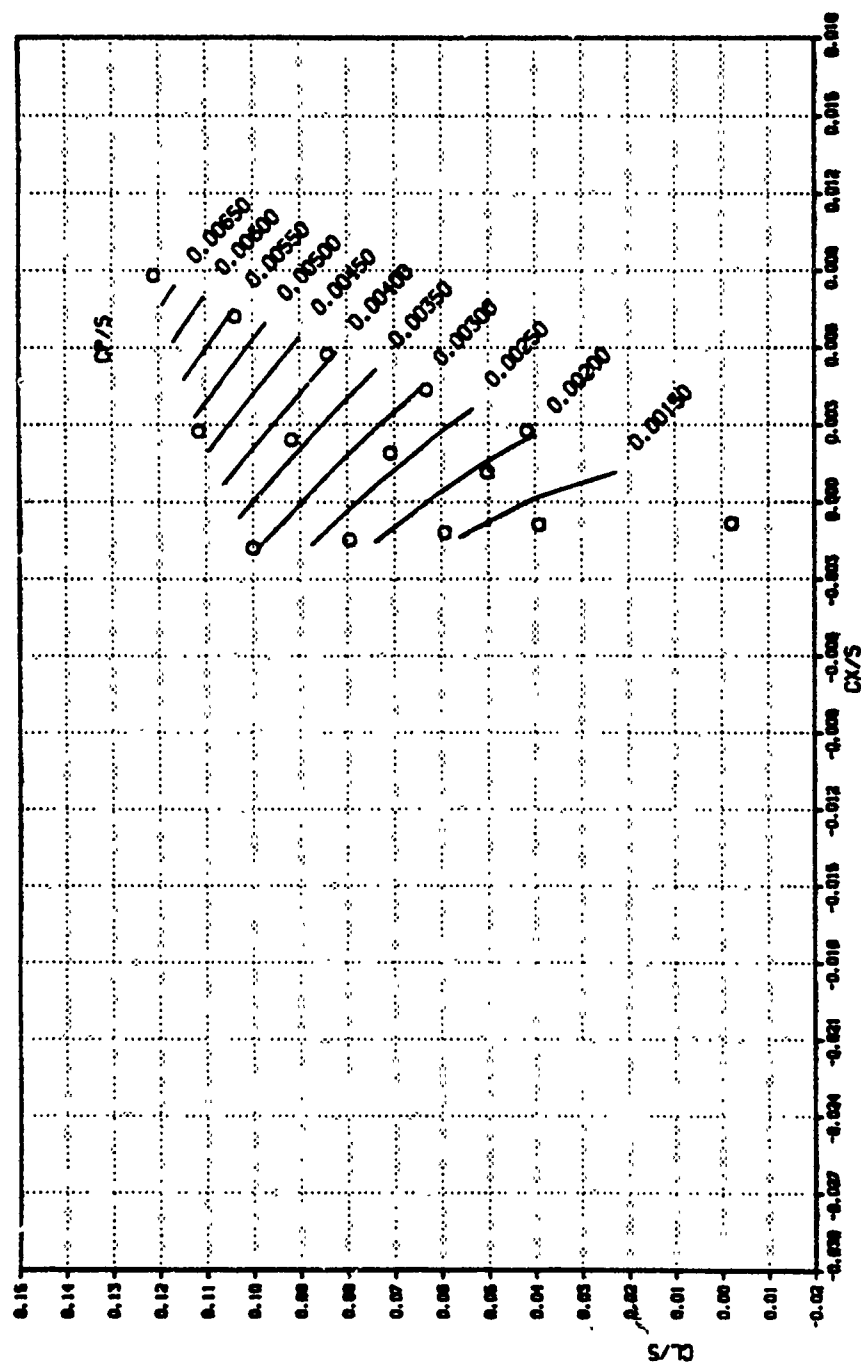
SECTION D

Plotted Performance and Loads Data

04/25/80
18 04 22
3

SHOFT/TAPERED TIP, V/DK = .200, MAT = .660
POWER COEFFICIENT CP/S

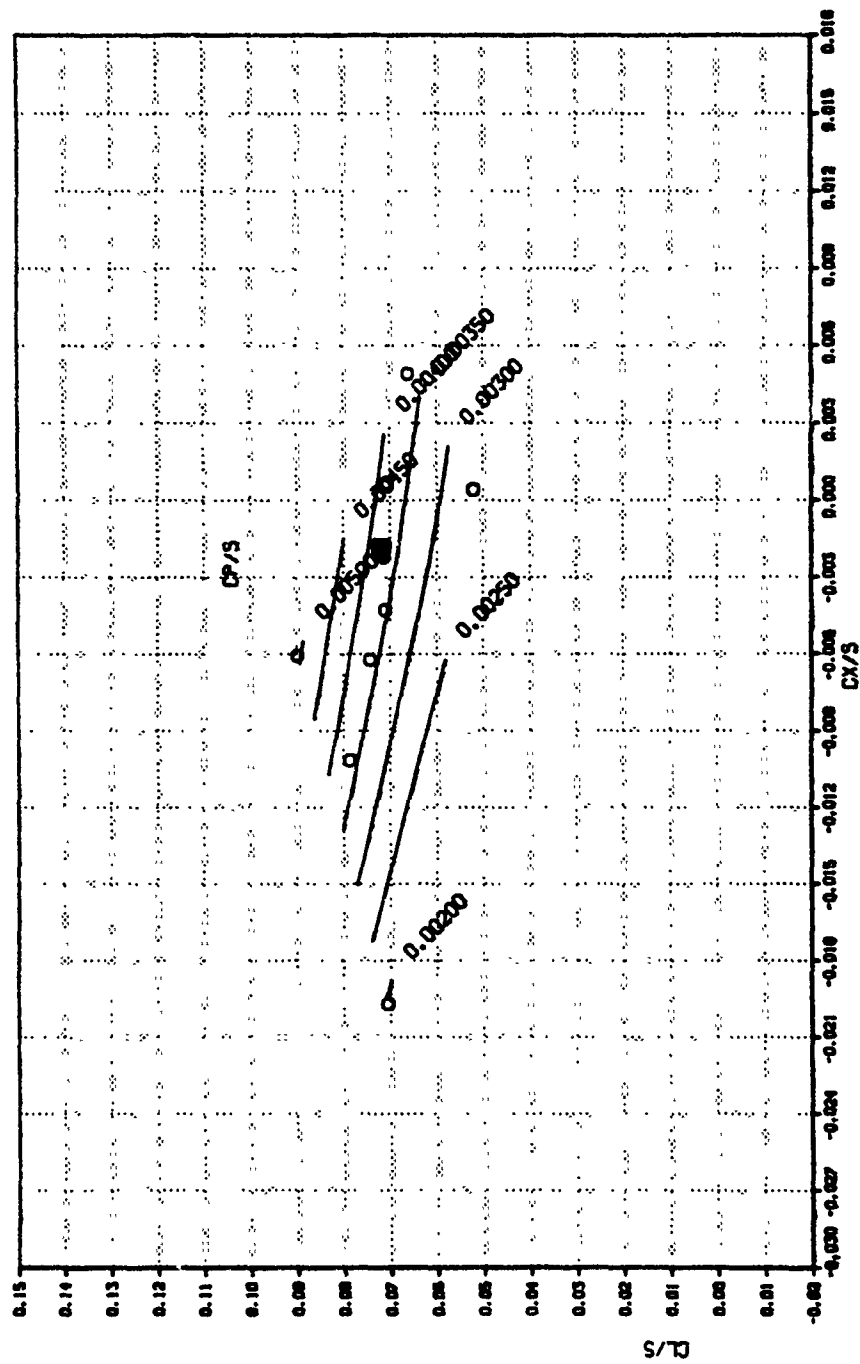
CV - 1.155×10^{-4}



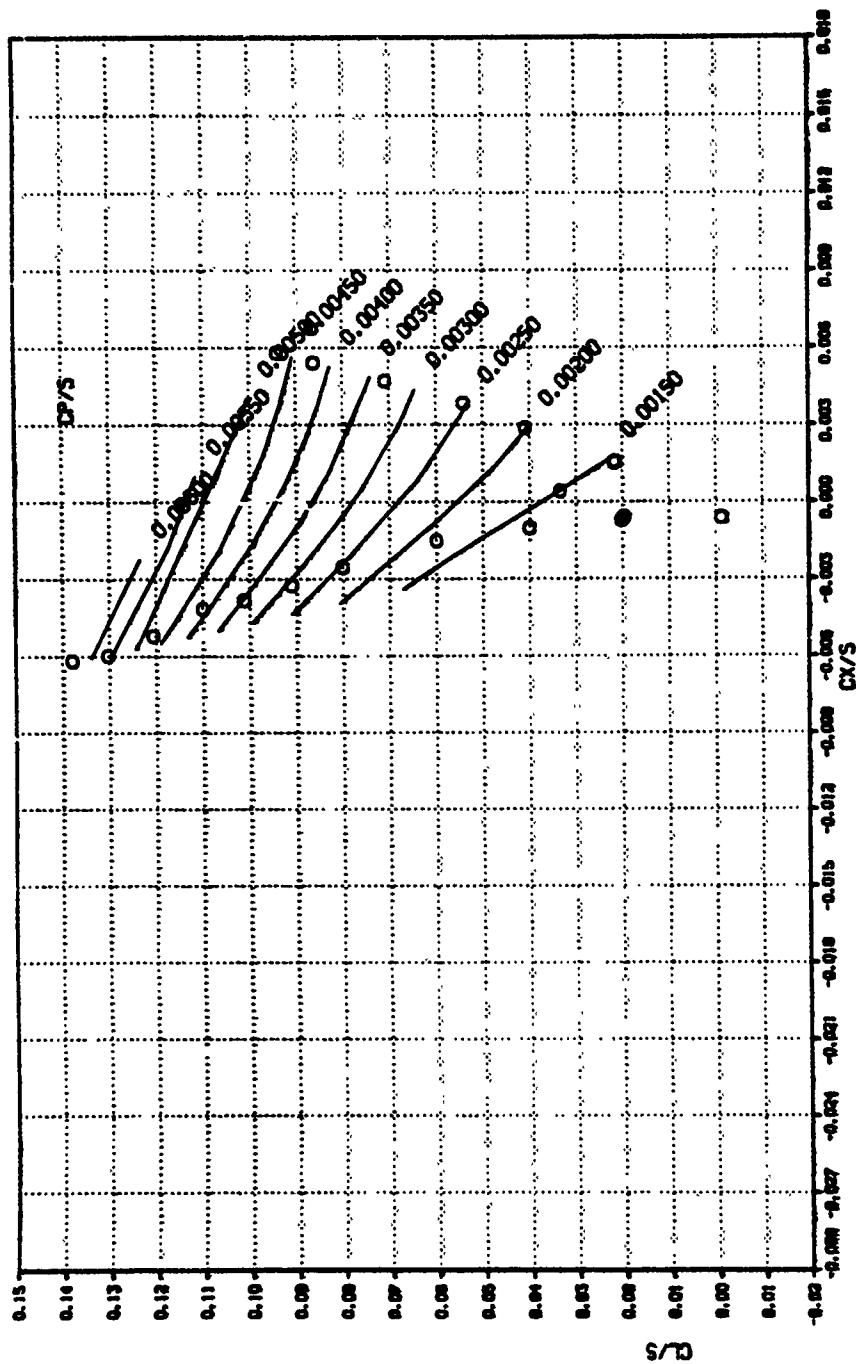
04/25/80
17 59 33

SHEPT/TAPERED TIP, V/OR - .075, MWT - .640
POWER COEFFICIENT CP/S

$C_v = 3.120 \times 10^{-3}$



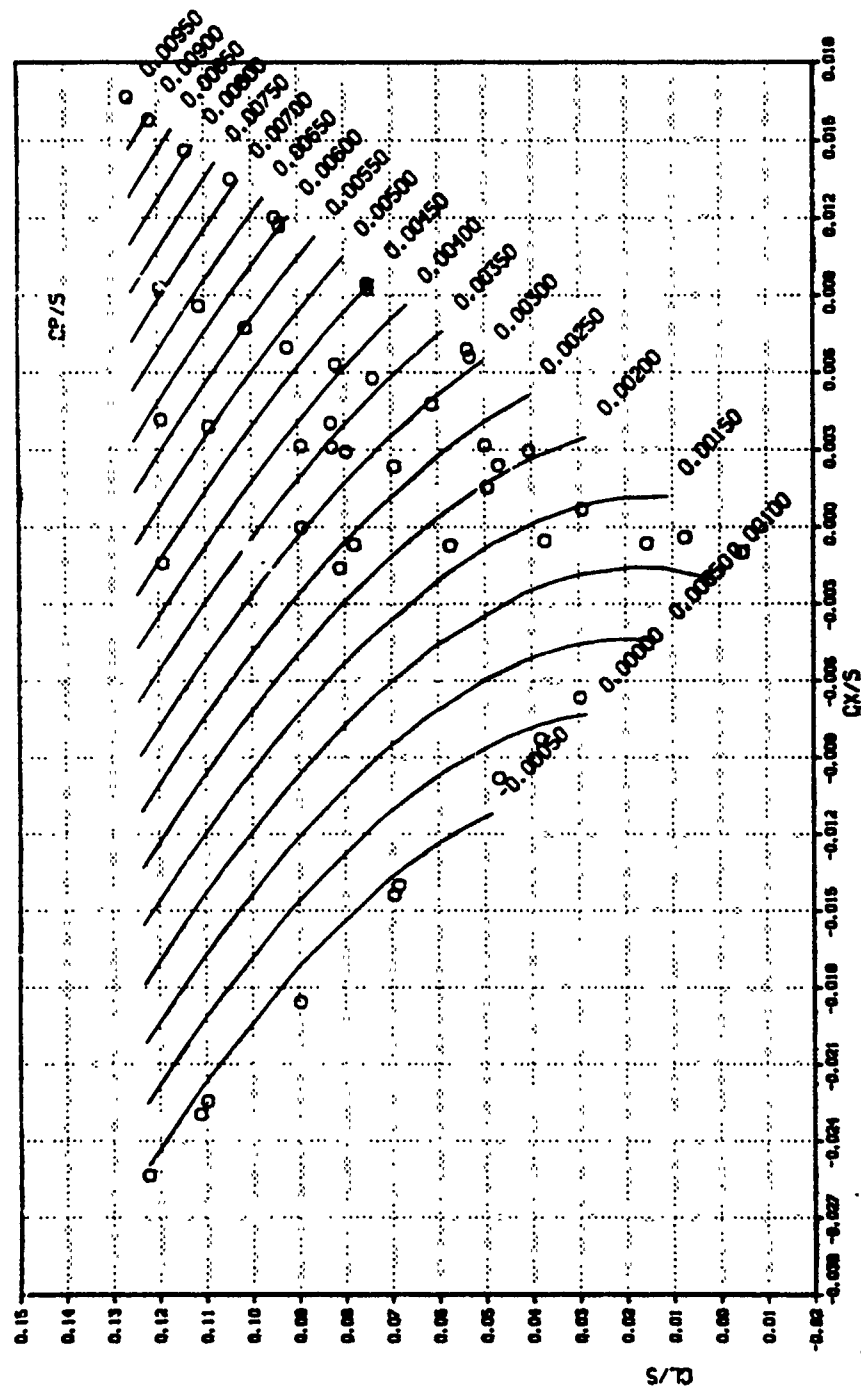
Ev - 3.519x10⁹



04/25/80
18 07 46
4

SHEPT/TAPERED TIP, V/OR = .200, MAT = .720
POWER COEFFICIENT CP/S

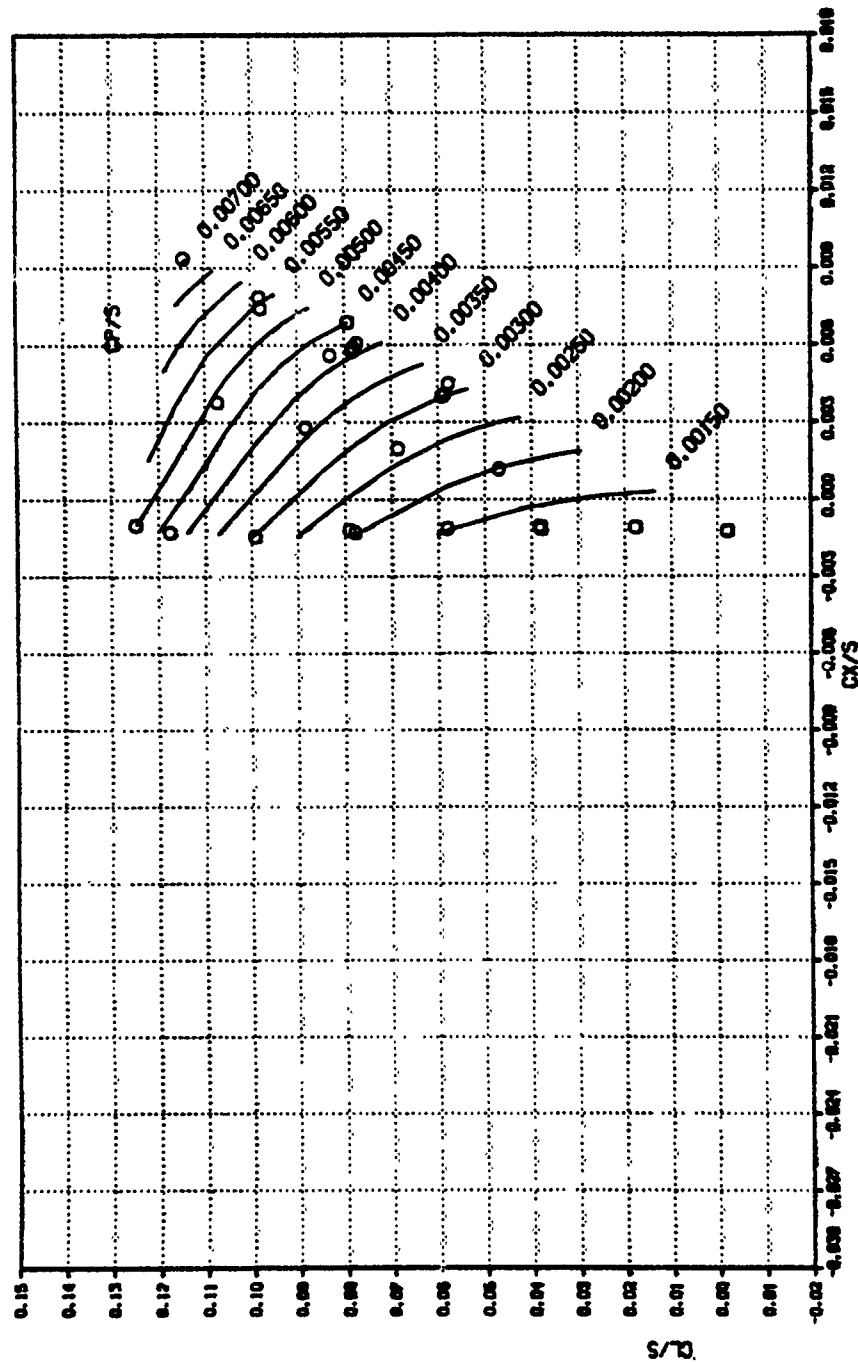
Cv - 1.692x10⁻⁴



04/23/80
20 15 48
5

SHEPT/TAPERED TIP, V/OR - .250, HRT - .750
POWER COEFFICIENT CP/S

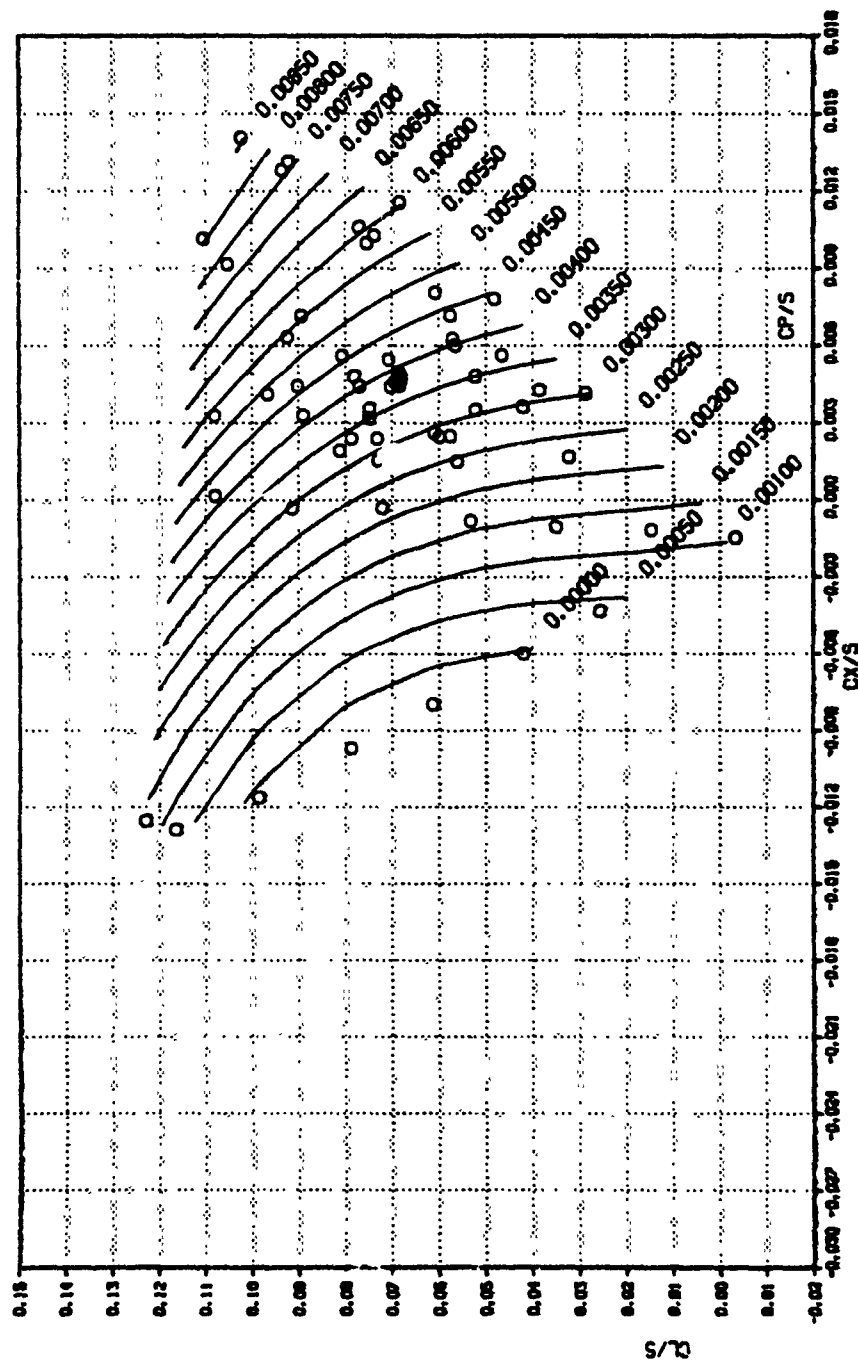
$C_v = 9.524 \times 10^{-4}$



04/23/80
20 34 21
8

SHIPT/TAPERED TIP, V/OR = .300, MWT = .780
POWER COEFFICIENT CP/S

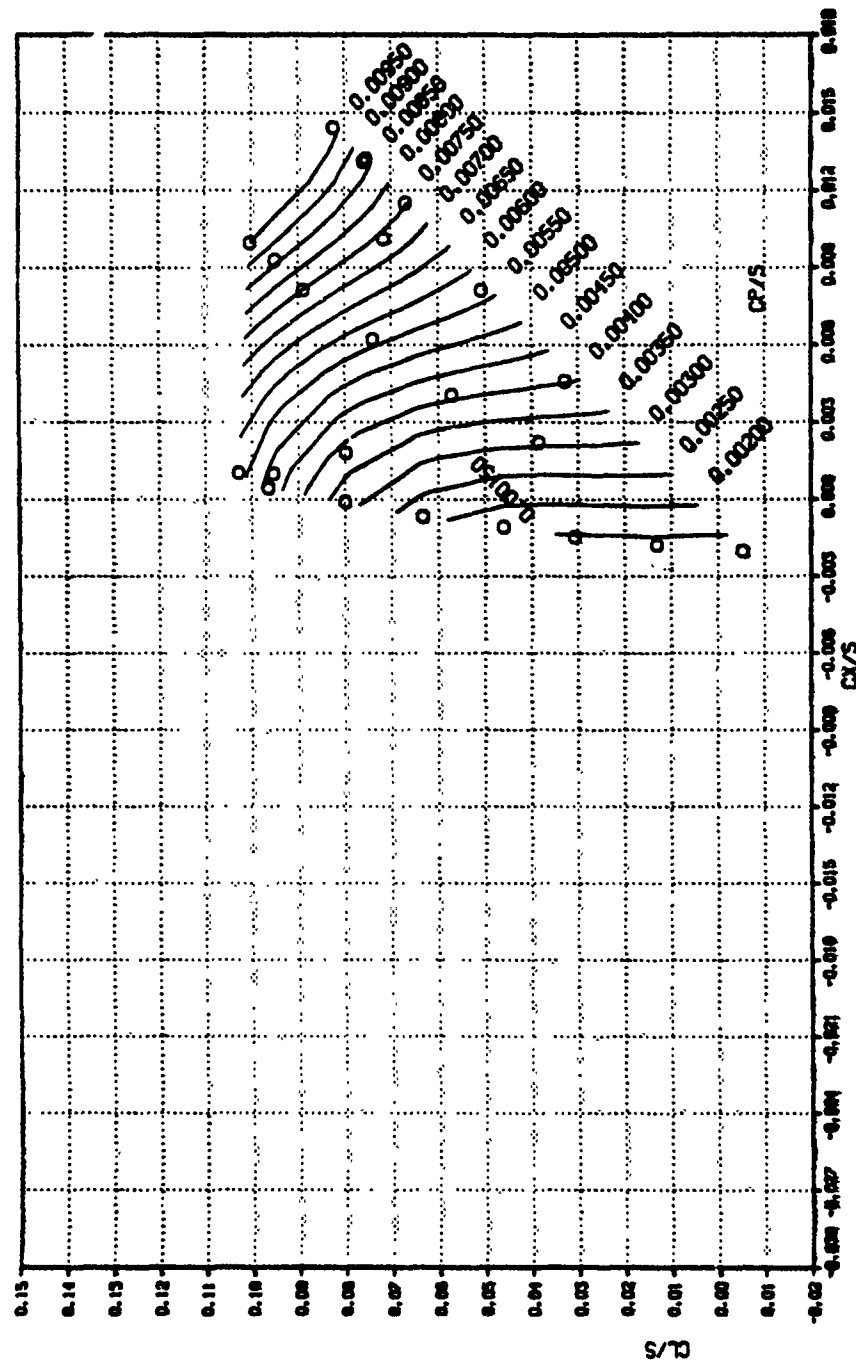
CV = 1.208×10^{-4}



04/27/80
20 44 30
9

SHOFT/TAPERED TIP, V/OR = .375, $\mu H_i = .825$
POWER COEFFICIENT CP/S

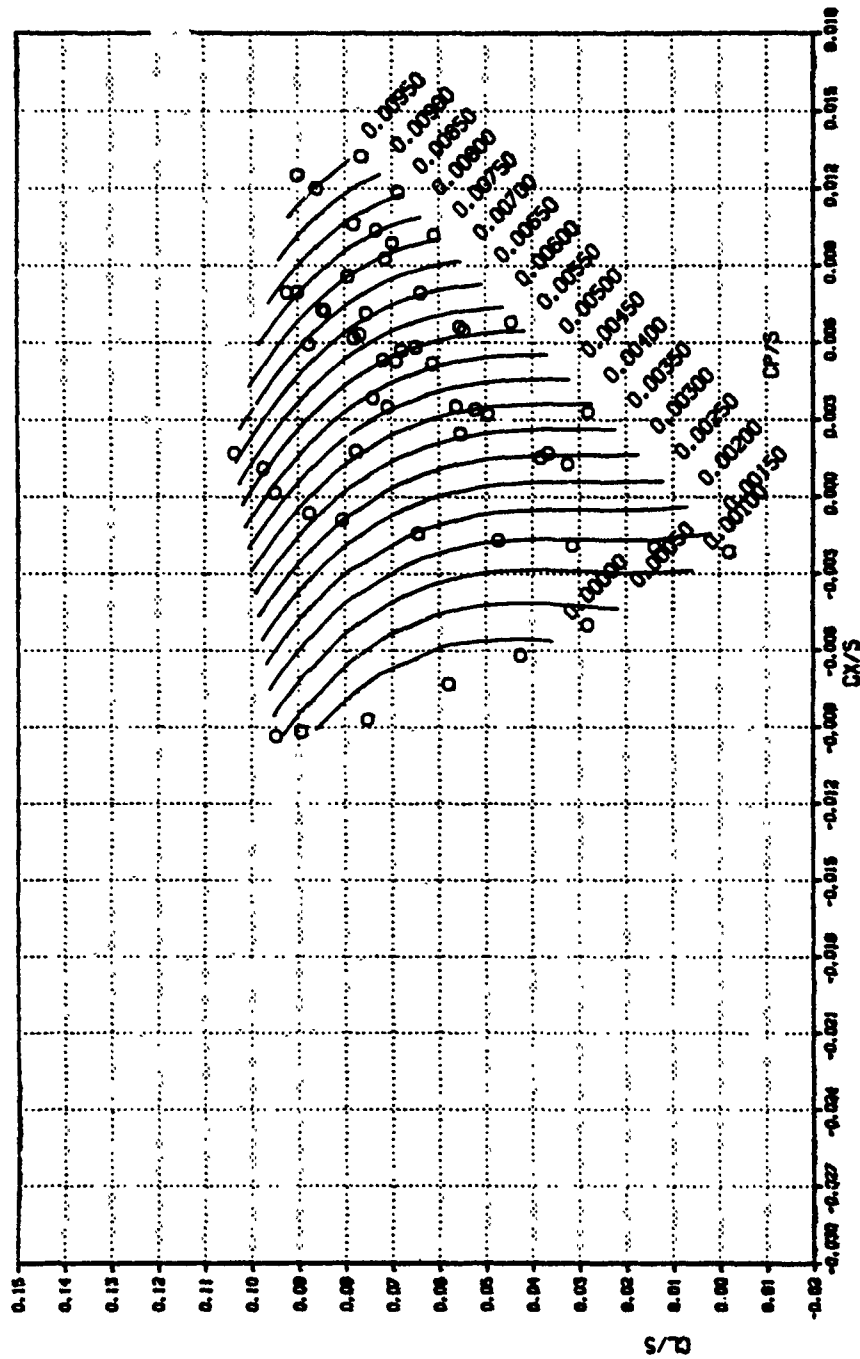
$C_v = 1.832 \times 10^{-4}$



04/23/80
21 02 01
14

SHEPT/TAPERED TIP, V/OR = .400, MWT = .840
POWER COEFFICIENT CP/S

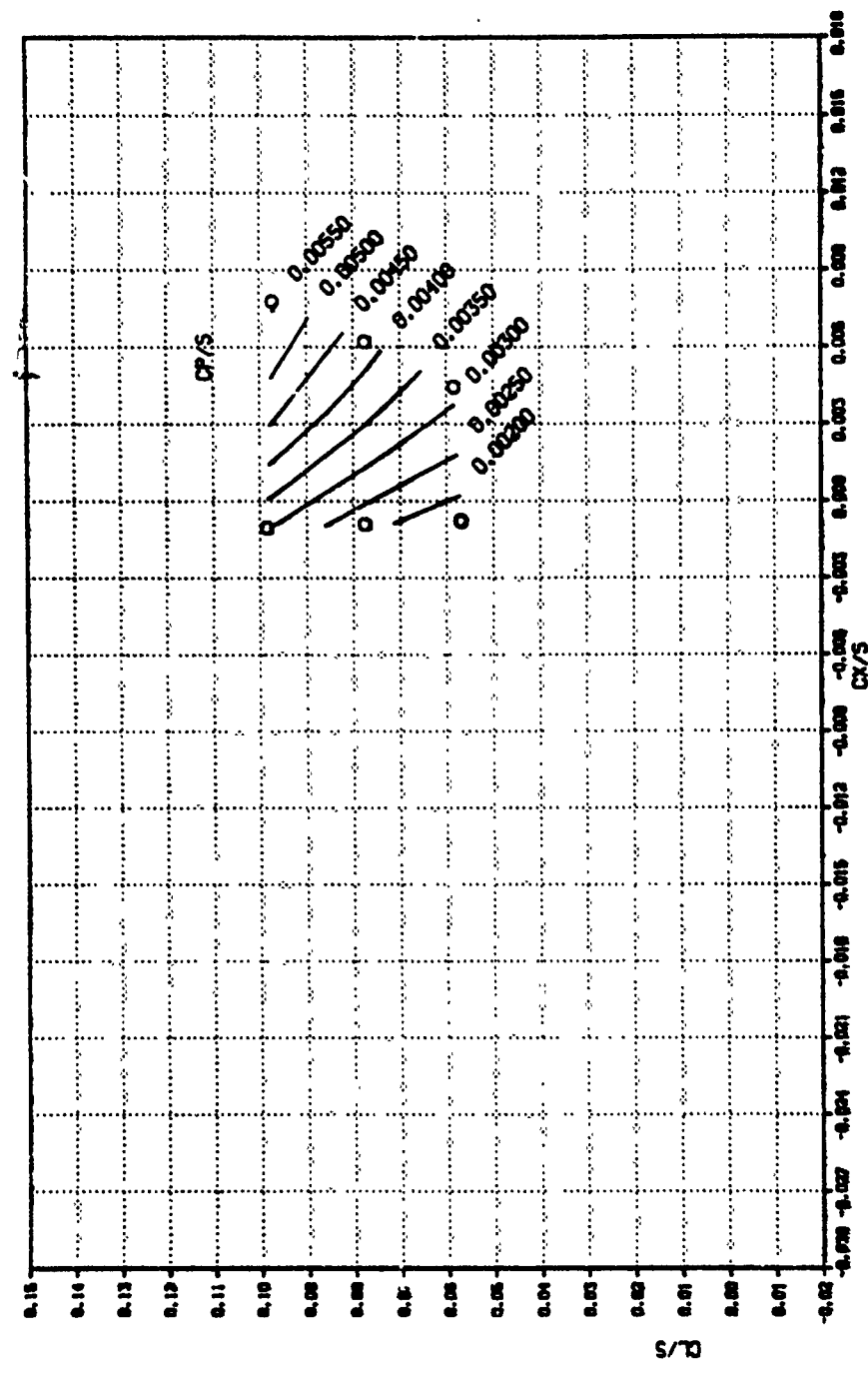
Ev - 1.822x10⁻⁴



04/25/80
18 20 37
6

SHOFT/TAPERED TIP, V/OR - .250, WRT - .015
POWER COEFFICIENT CP/S

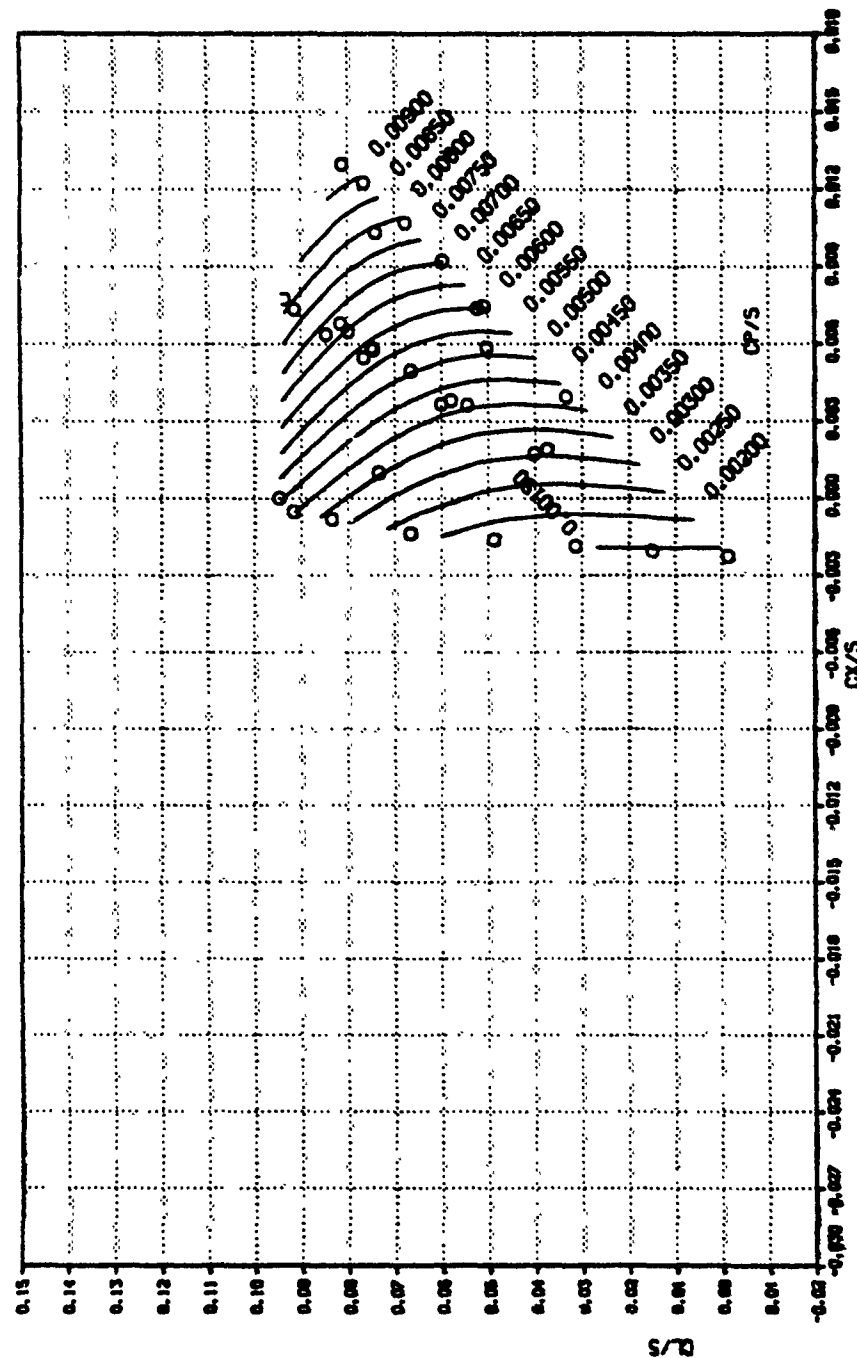
$\epsilon = 7.757 \times 10^{-4}$



04/23/80
20 50 22
10

SHIPT/TAPERED TIP, V/OR - .375, MAT - .685
POKER COEFFICIENT CP/S

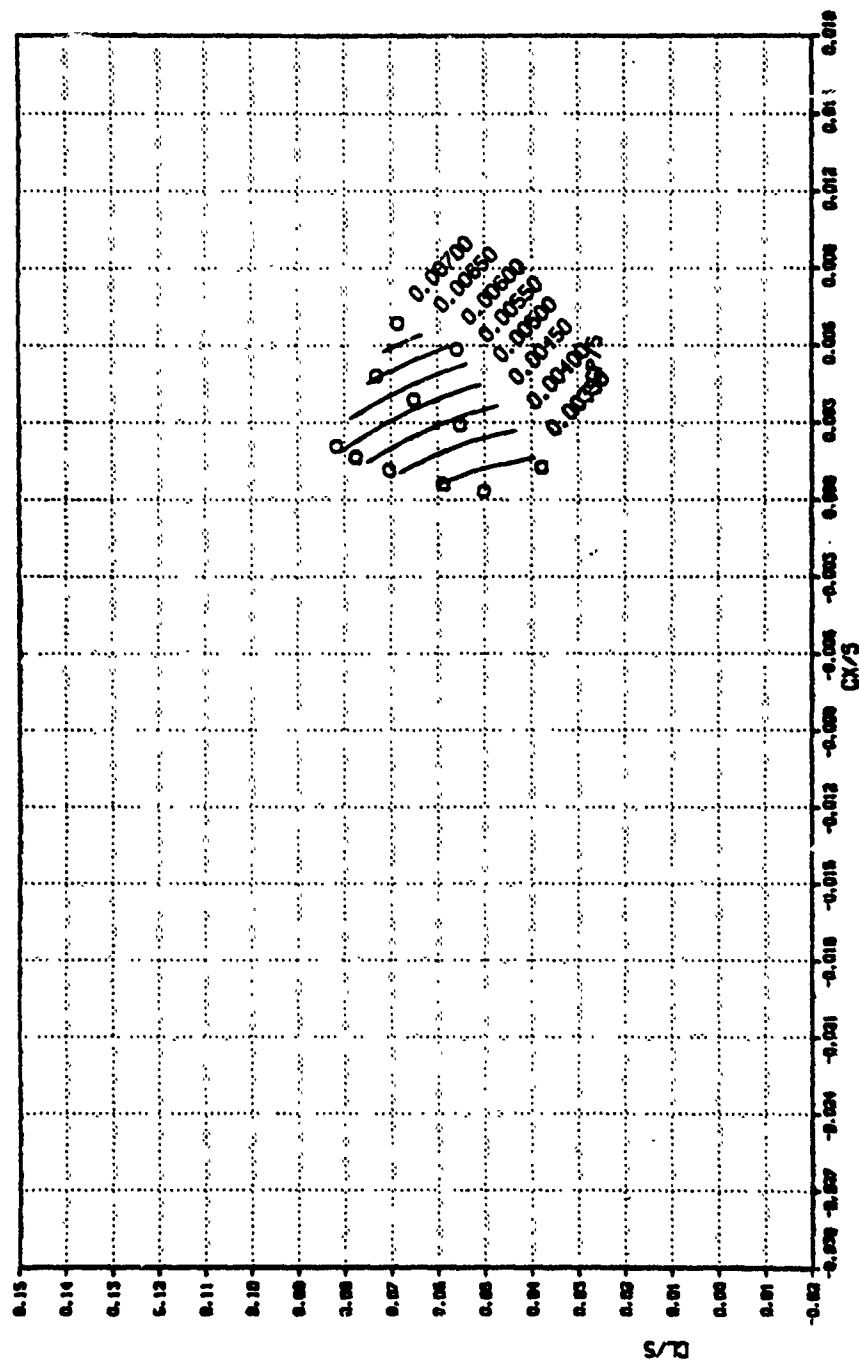
CV - 1.822×10^{-4}



04/25/80
18 51 21
11

SWEEP/TAPERED TIP, V/DK - .375, MAT - .840
POWER COEFFICIENT CP/S

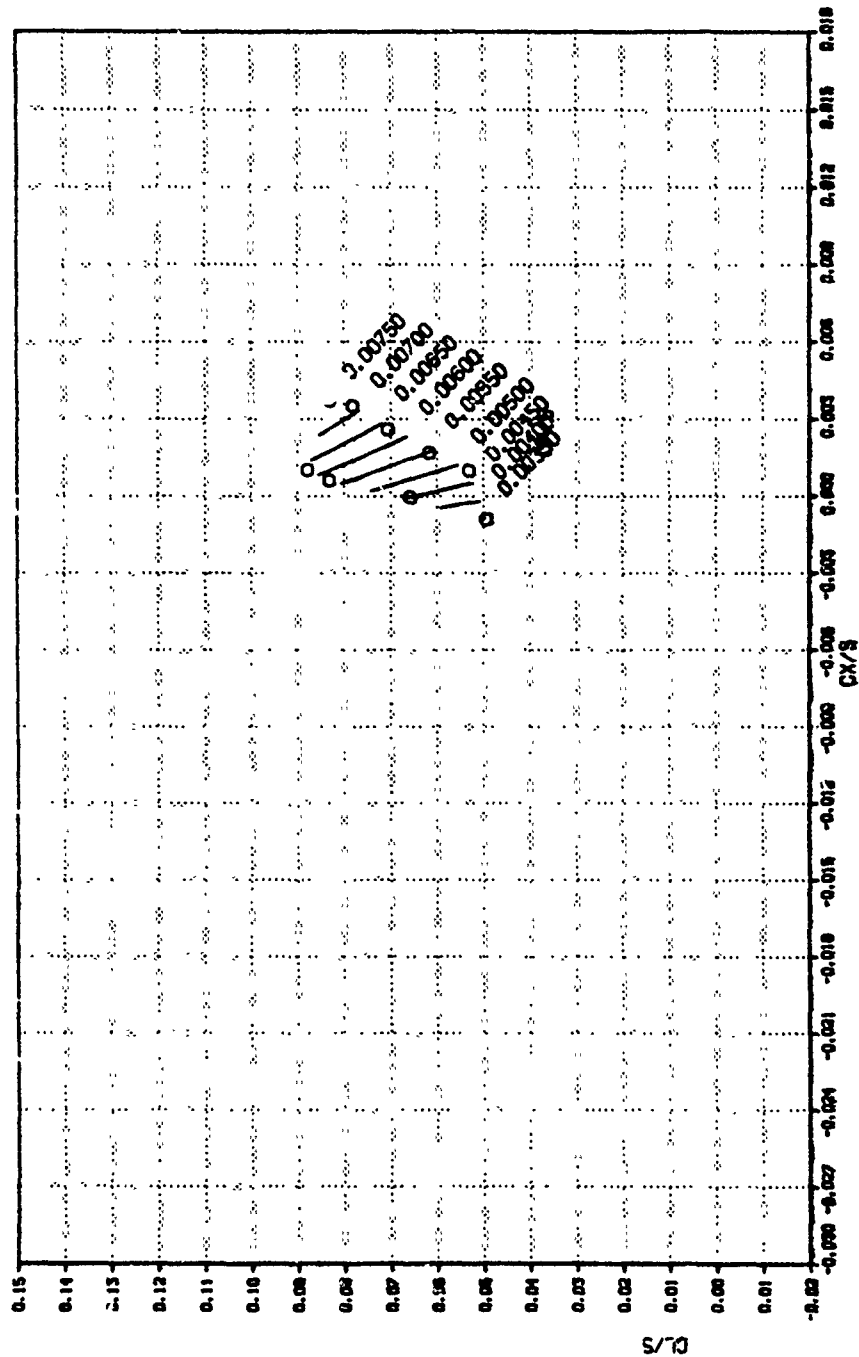
CV - 1.753×10^{-4}



04/25/80
18 58 05
12

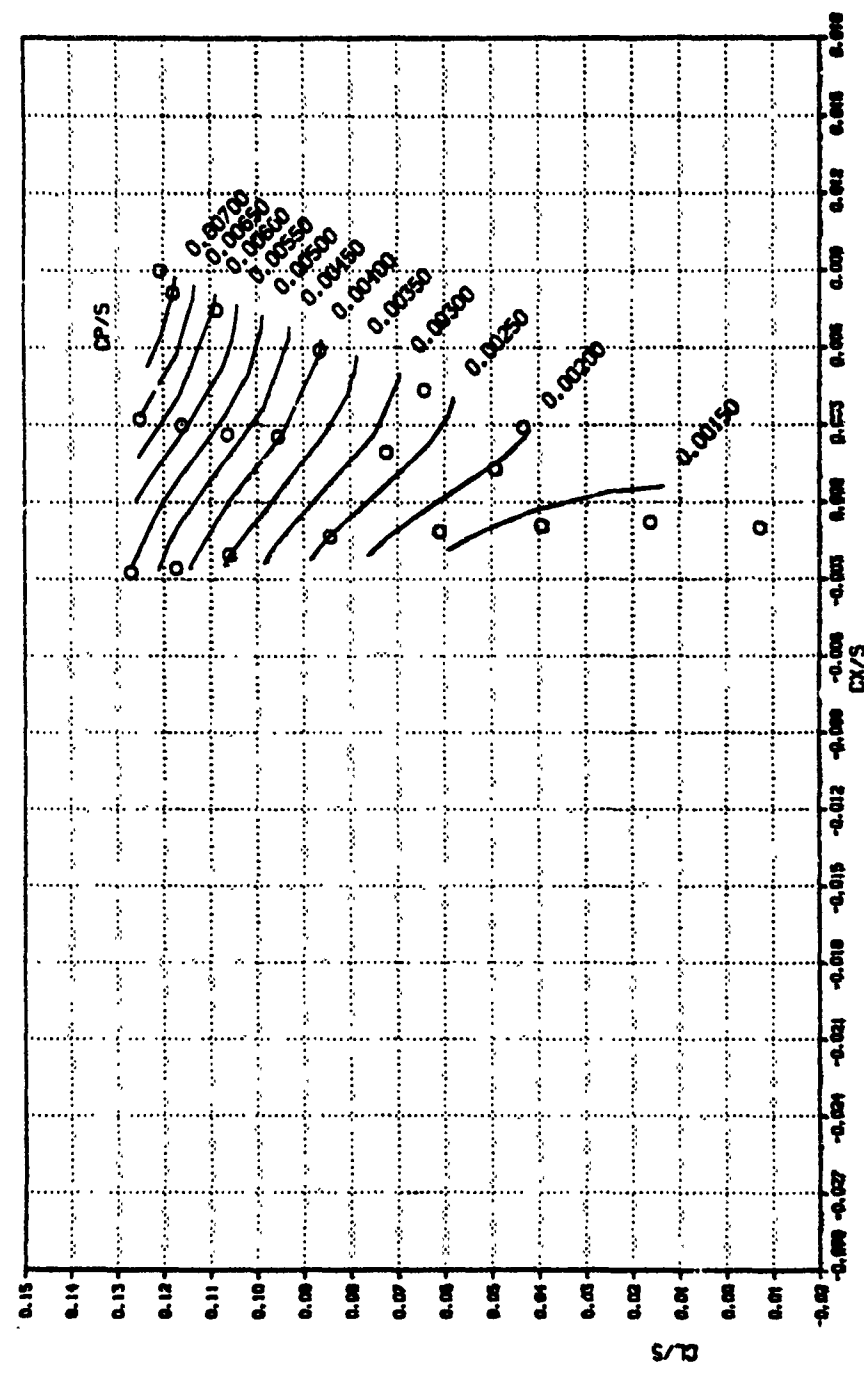
SHEPT/TAPERED TIP, V/OR - .375, MAT - .965
POWER COEFFICIENT CP/S

$E_v = 8.817 \times 10^{-4}$



04/24/80
04 06 11
1

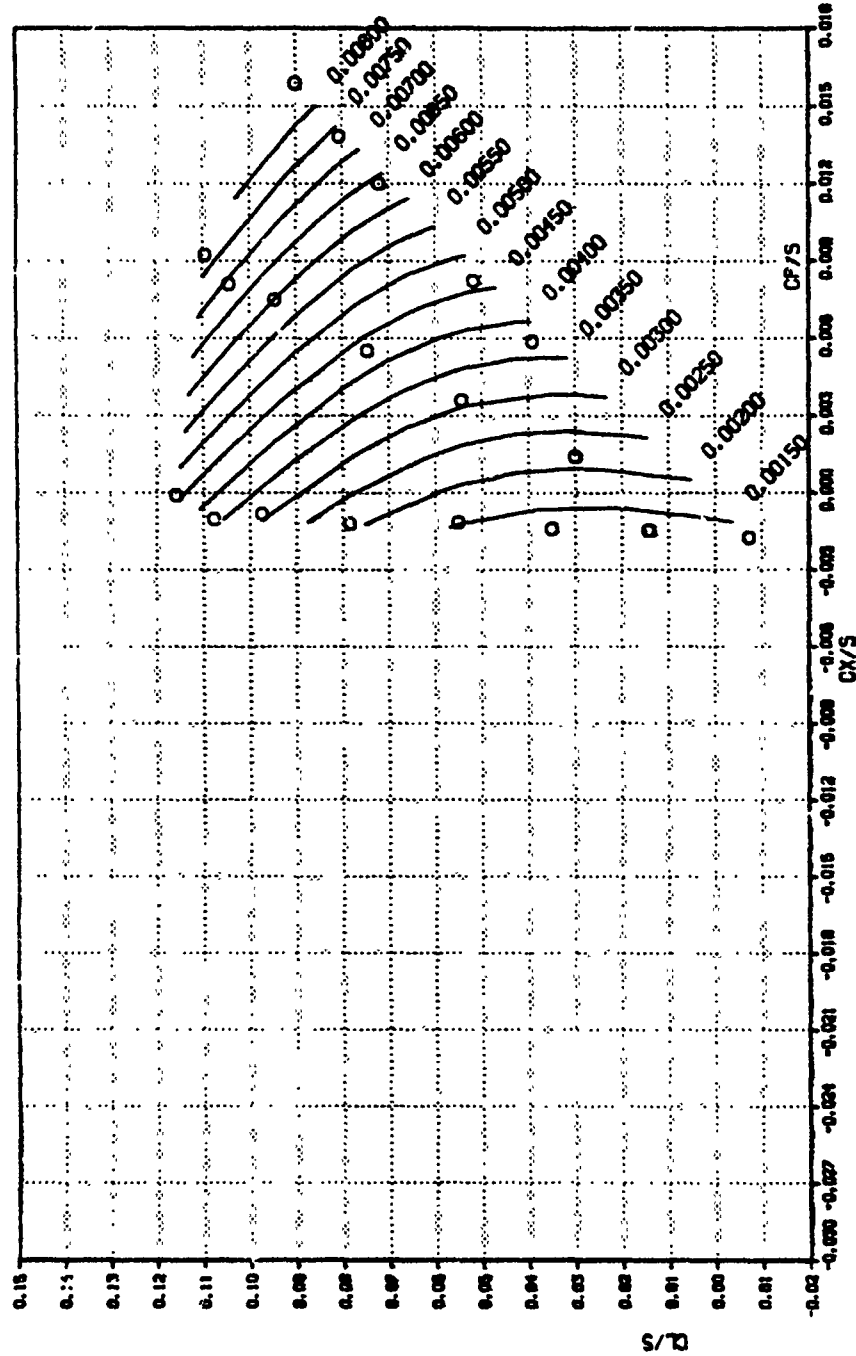
CV - 3.345x10⁻³
SHEPT TIP, V/OR - .200, MPT - .720
POWER COEFFICIENT CP/S



04/24/80
04 07 33
2

SWEPT TIP, V/OR = .300, MAT = .780
POWER COEFFICIENT CP/S

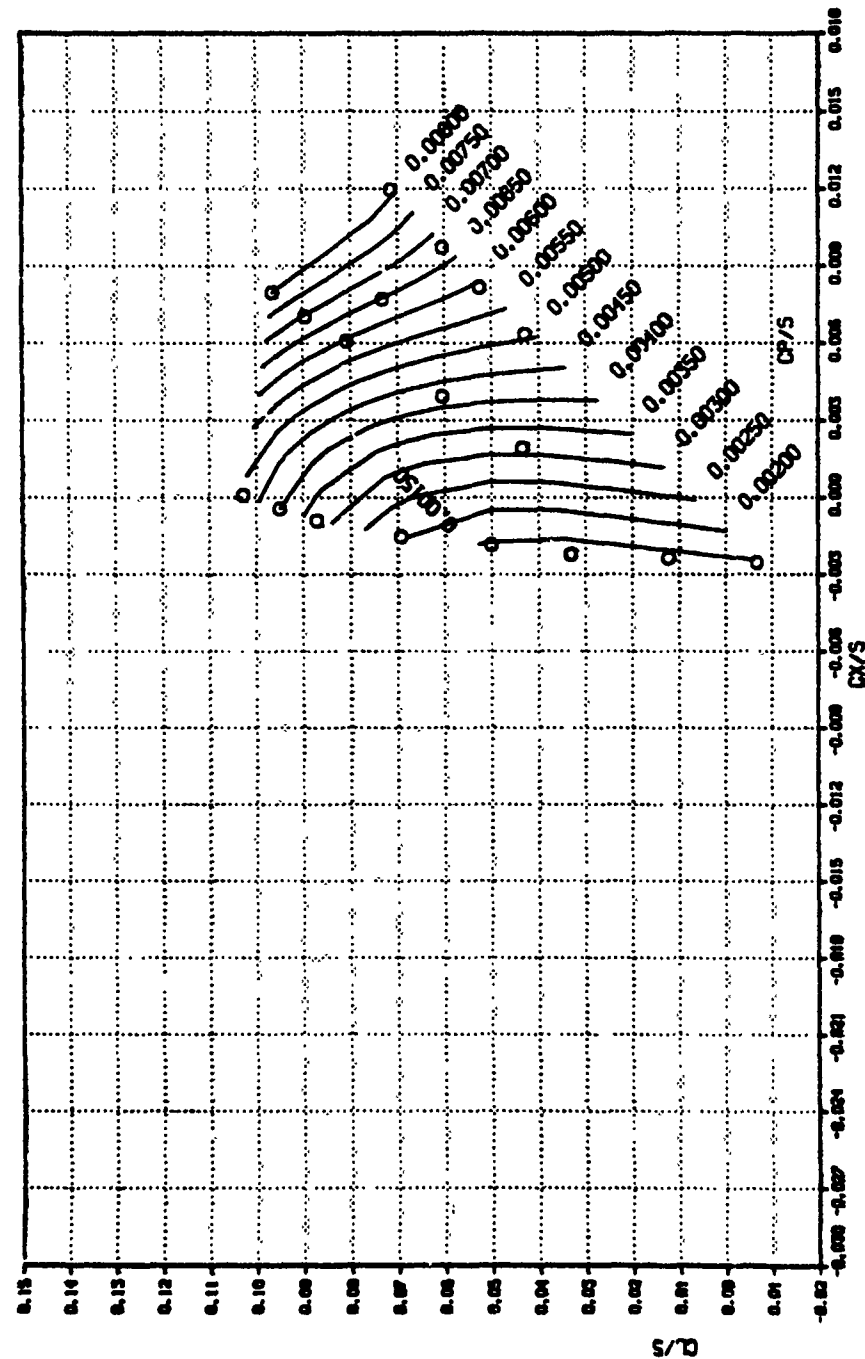
$C_v = 1.475 \times 10^{-4}$



04/24/80
04 09 03
3

SNAPT TIP, V/OR = .375, NWT = .825
POWER COEFFICIENT CP/S

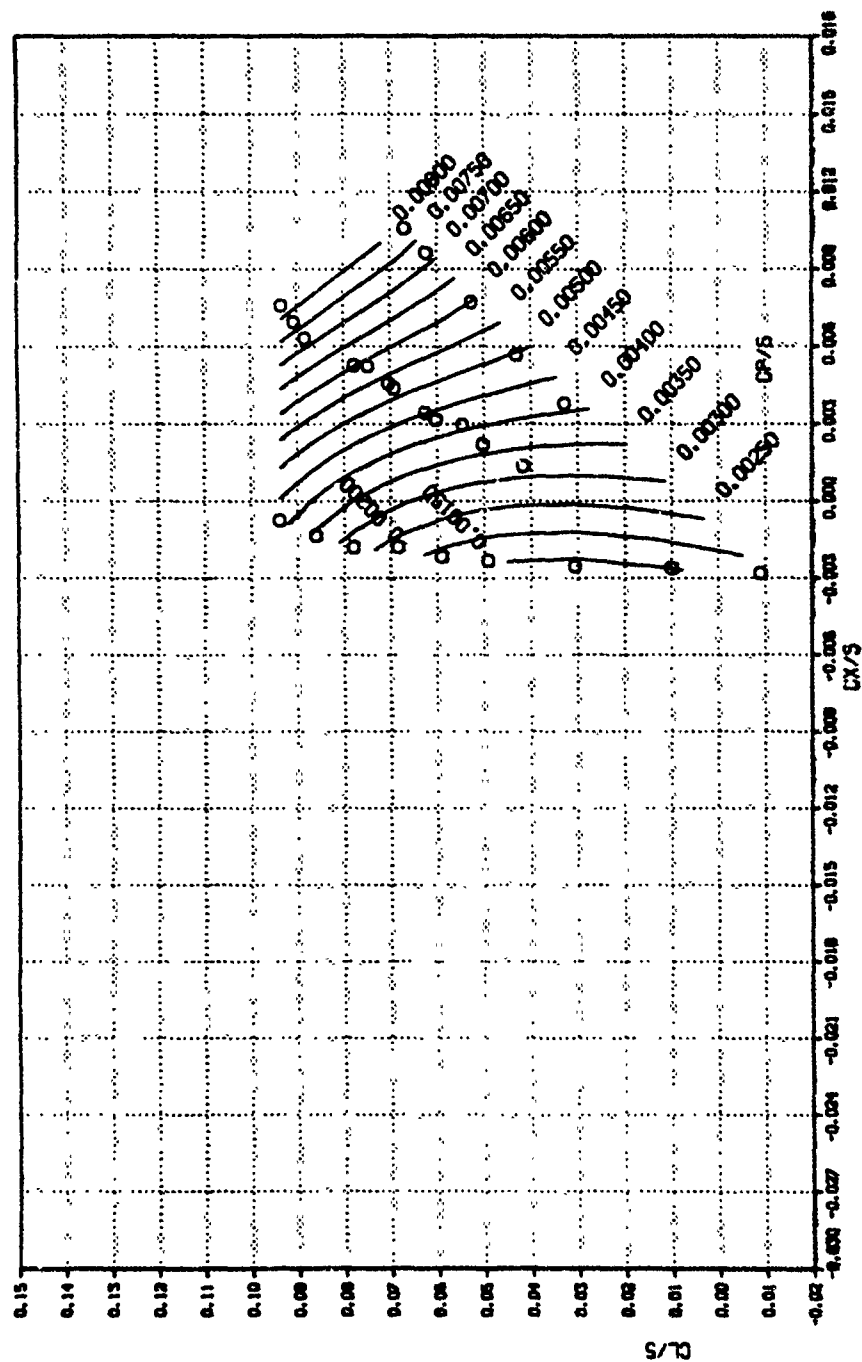
CV = 1.650×10^{-4}



04/24/80
04 10 59
4

SWEEP TIP, V/OR = .375, MAT = .895
POWER COEFFICIENT CP/S

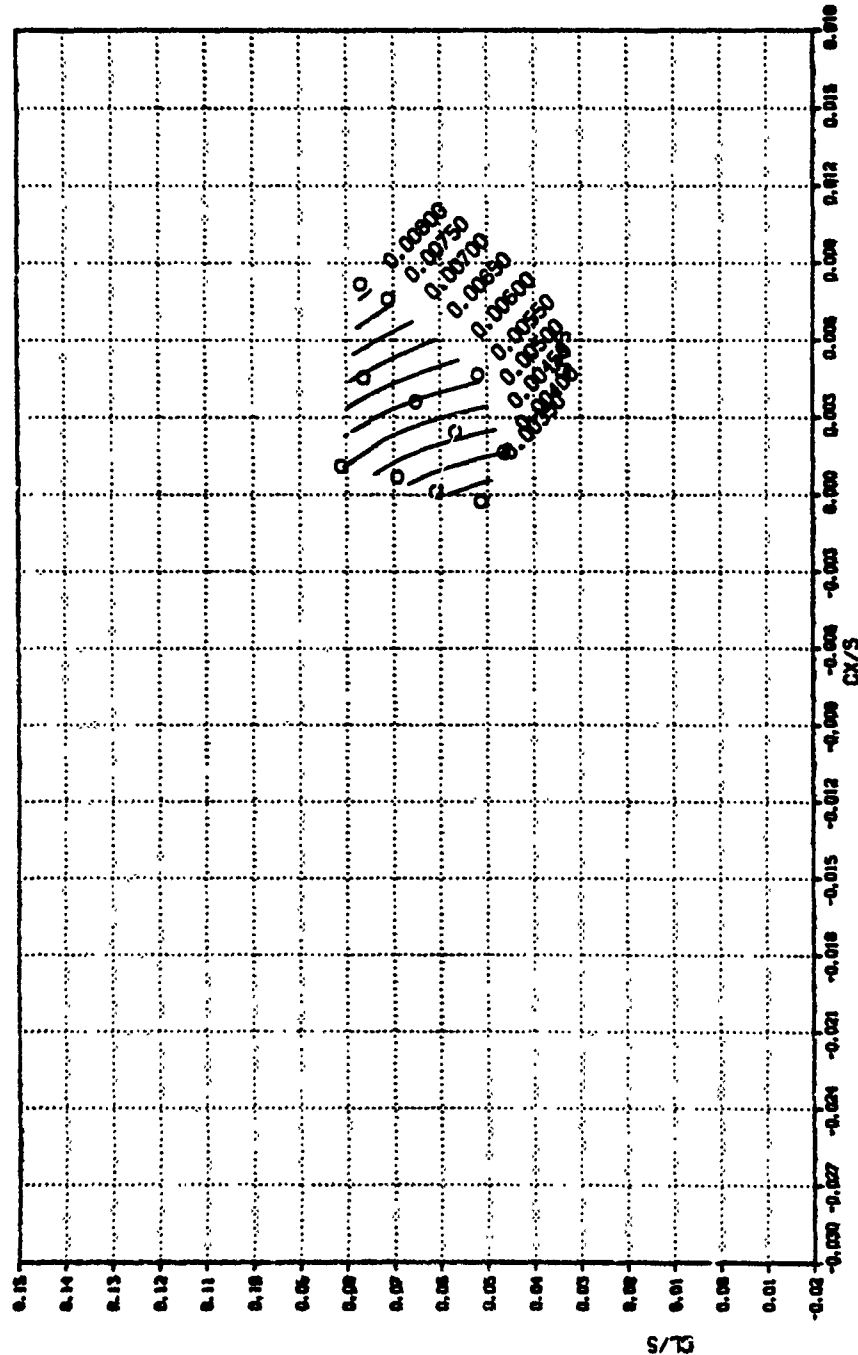
CV - 1.219×10^{-4}



04/24/80
04 12 29
5

SHEPT TIP, V/OR - .375, HWT - .940
POWER COEFFICIENT CP/S

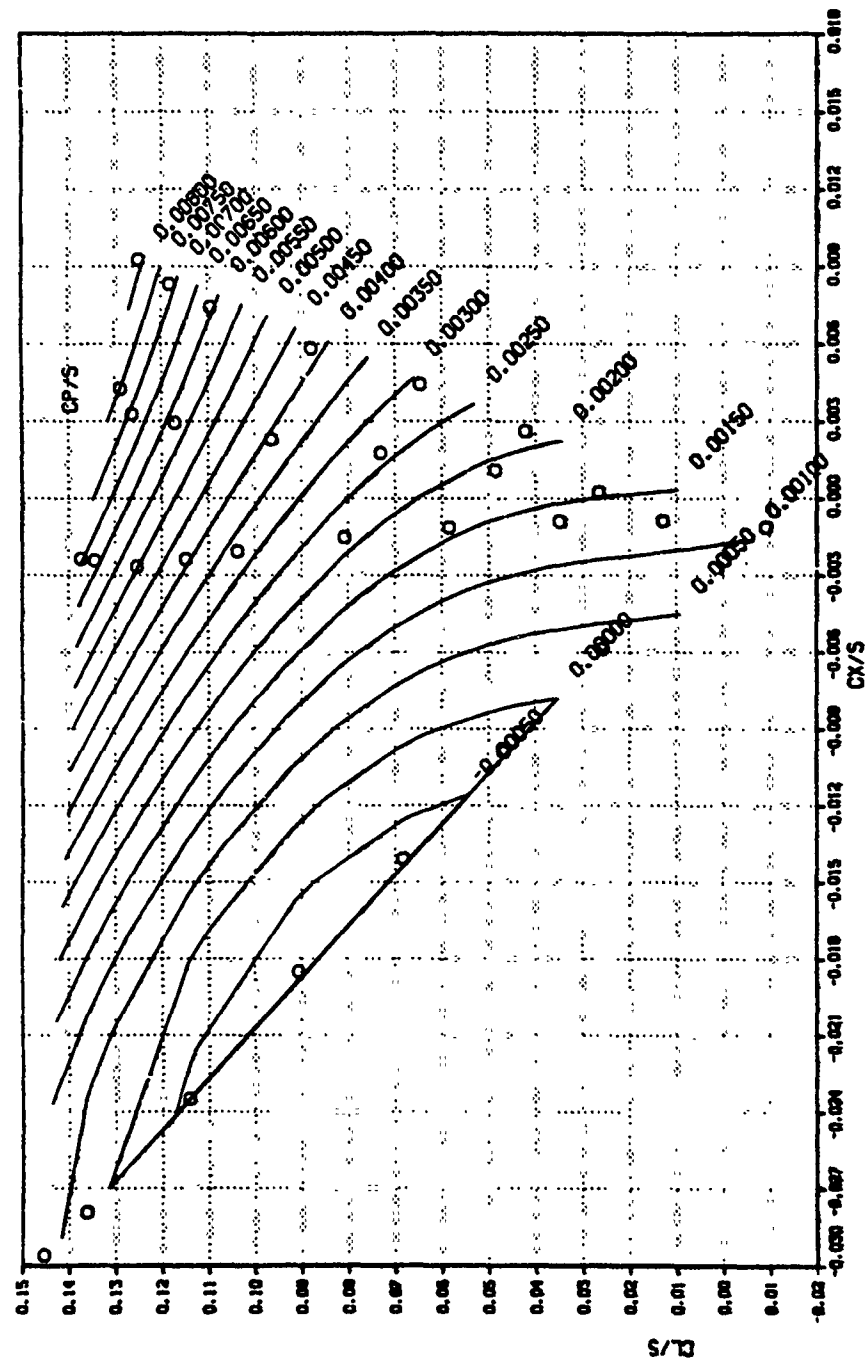
$C_v = 5.732 \times 10^{-4}$



04/25/80
00 50 51
1

TAPERED TIP, V/OR = .200, HMT = .720
POWER COEFFICIENT CP/S

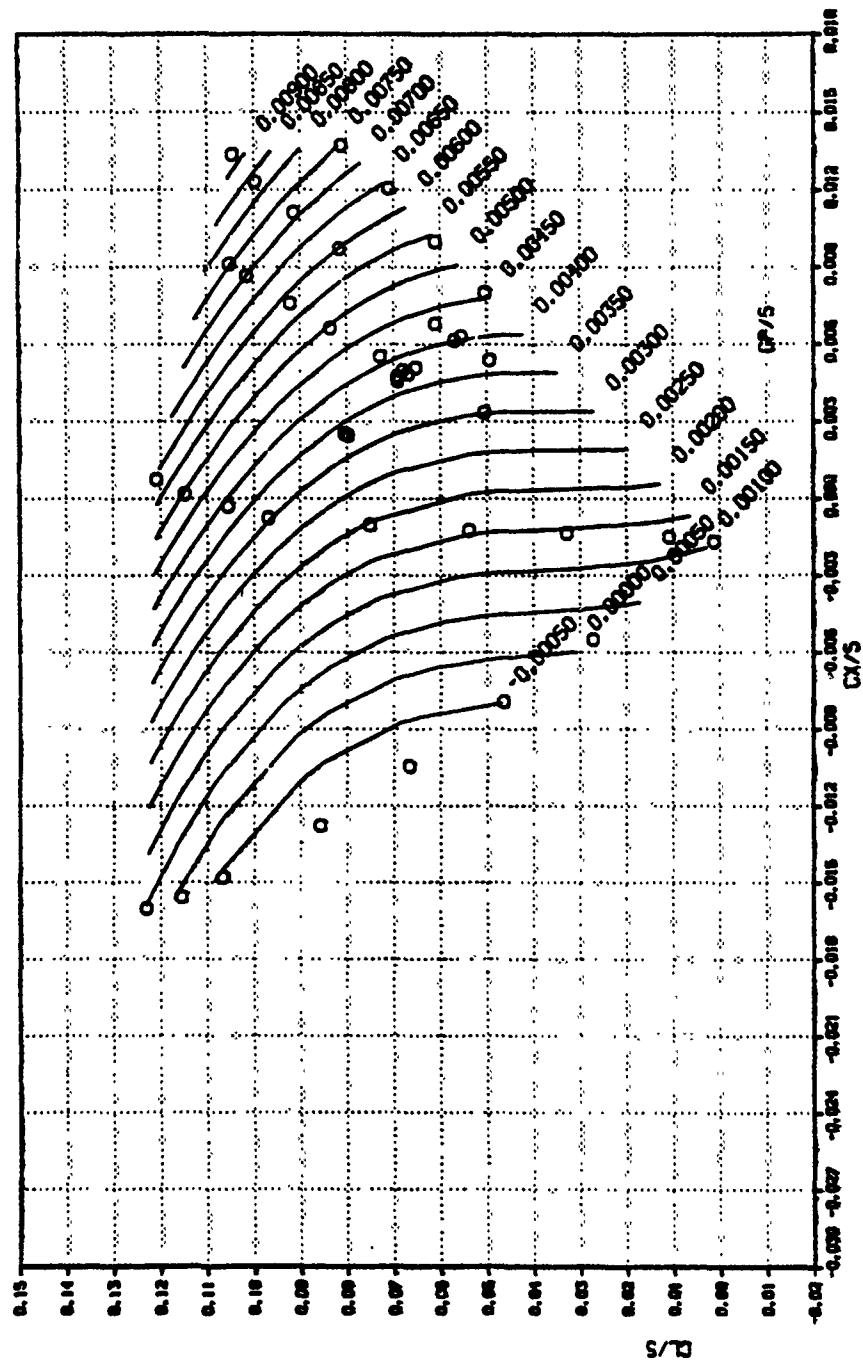
$\epsilon_v = 2.943 \times 10^{-4}$



04/25/80
00 55 45
2

TAPERED TIP, V/OR = .300, HWT = .780
POWER COEFFICIENT CP/S

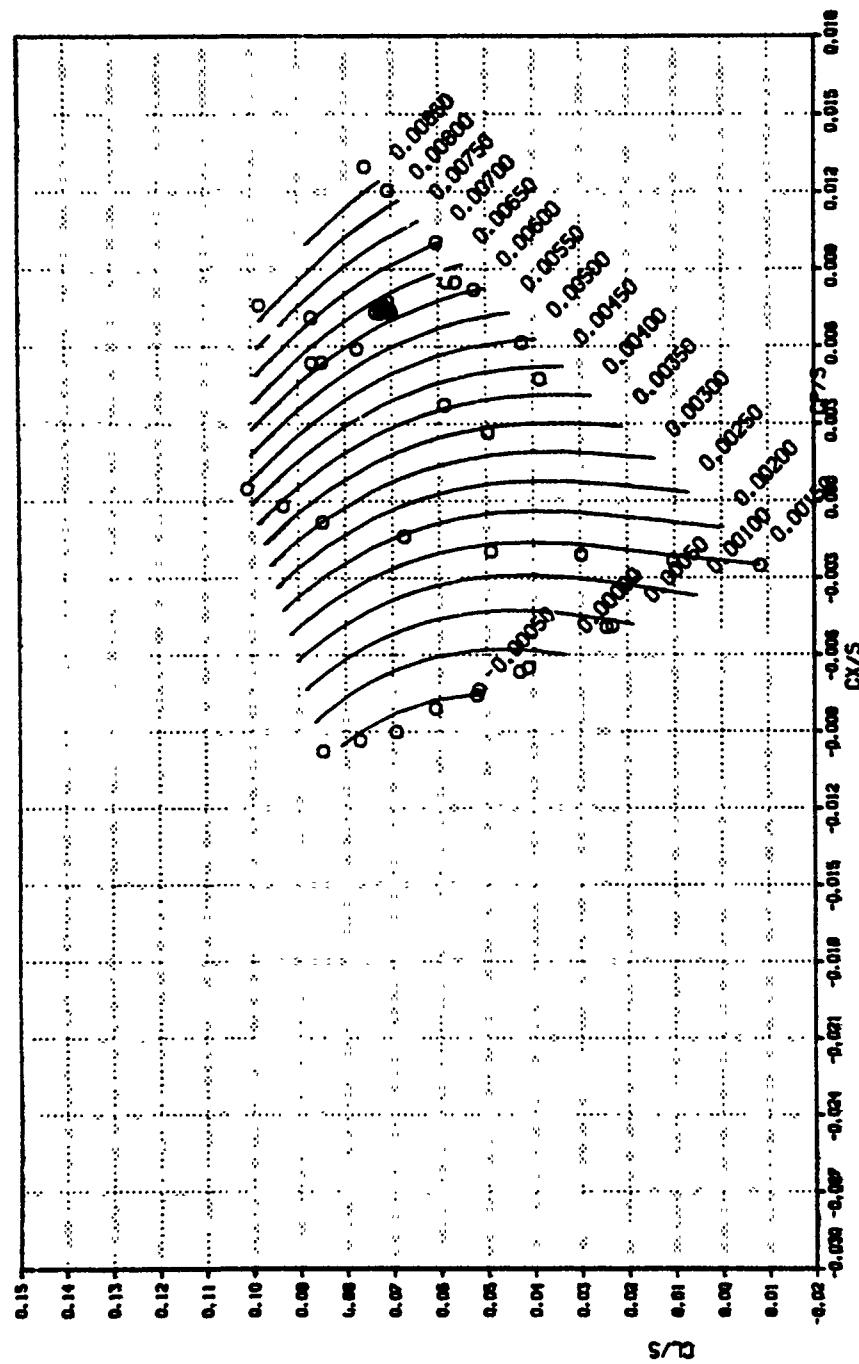
$C_v = 2.104 \times 10^{-3}$



04/25/80
01 02 52
3

TAPERED TIP, V/OR = .375, MAT = .825
POWER COEFFICIENT CP/S

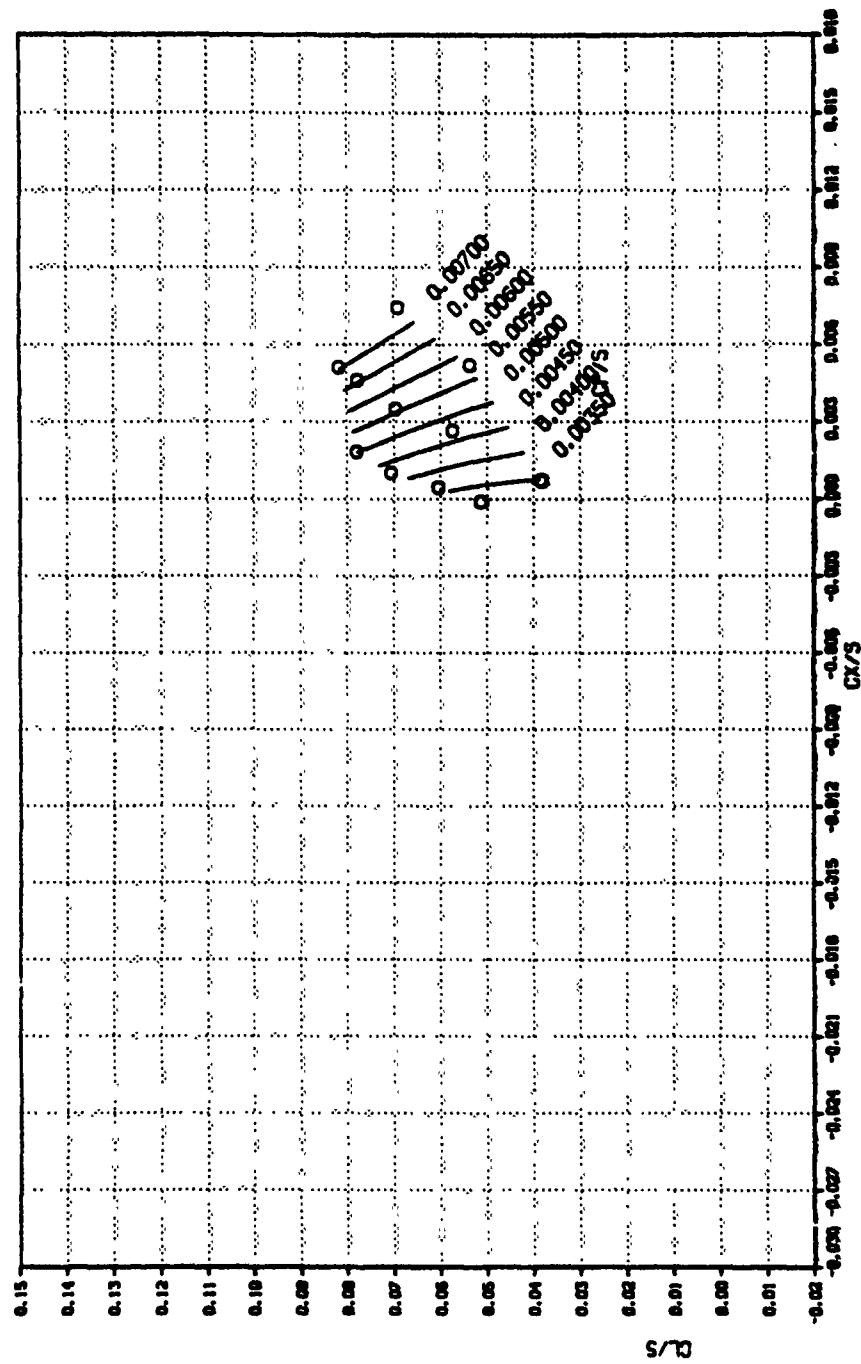
$C_v = 1.740 \times 10^{-4}$



04/26/80
14 07 56
4

INPERED TIP, V/OR - .375, HRT - .940
POWER COEFFICIENT CP/S

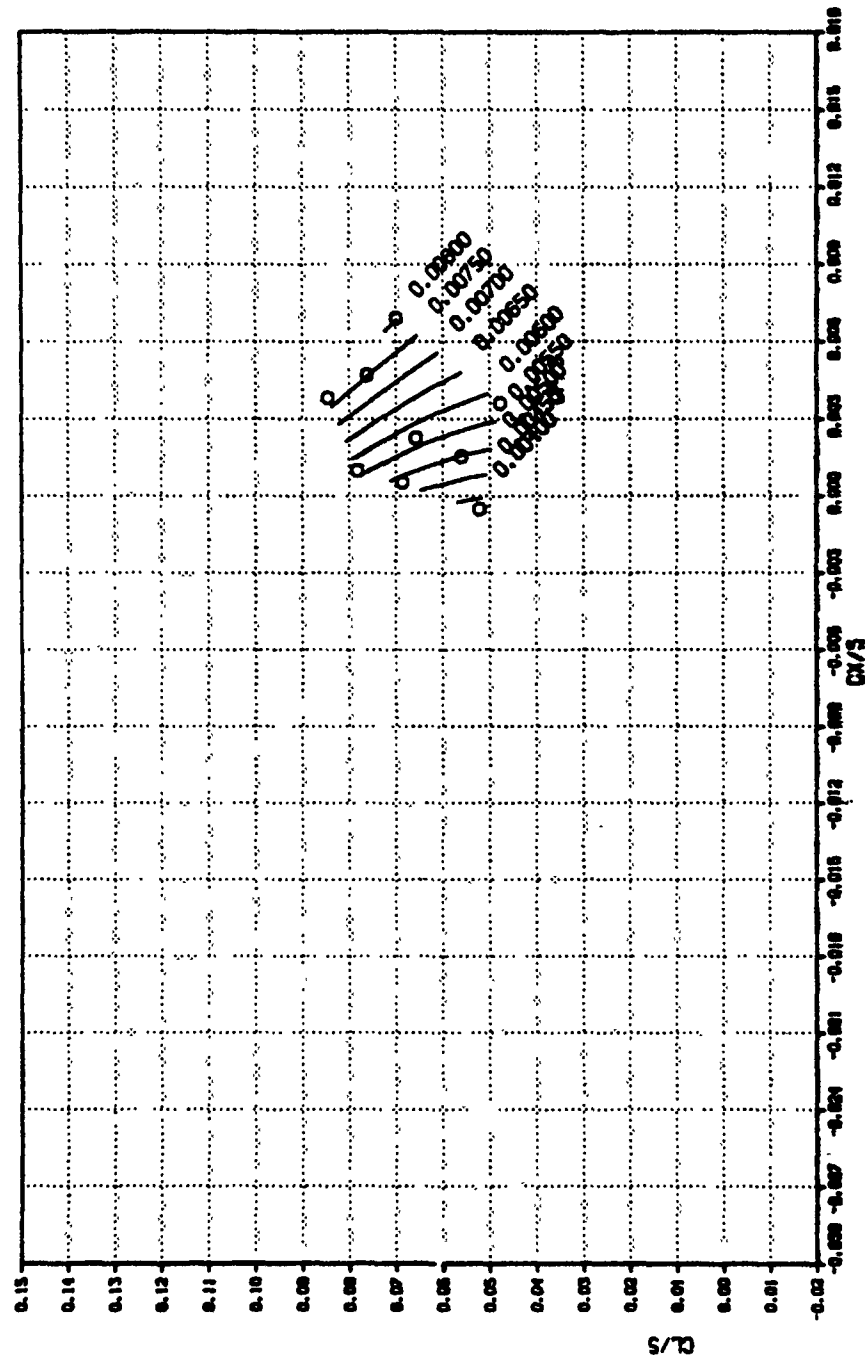
Ev - 1.188×10^{-3}



04/28/80
14 08 48
5

TAPERED TIP, V/OR = .375, MAT = .985
POWER COEFFICIENT CP/S

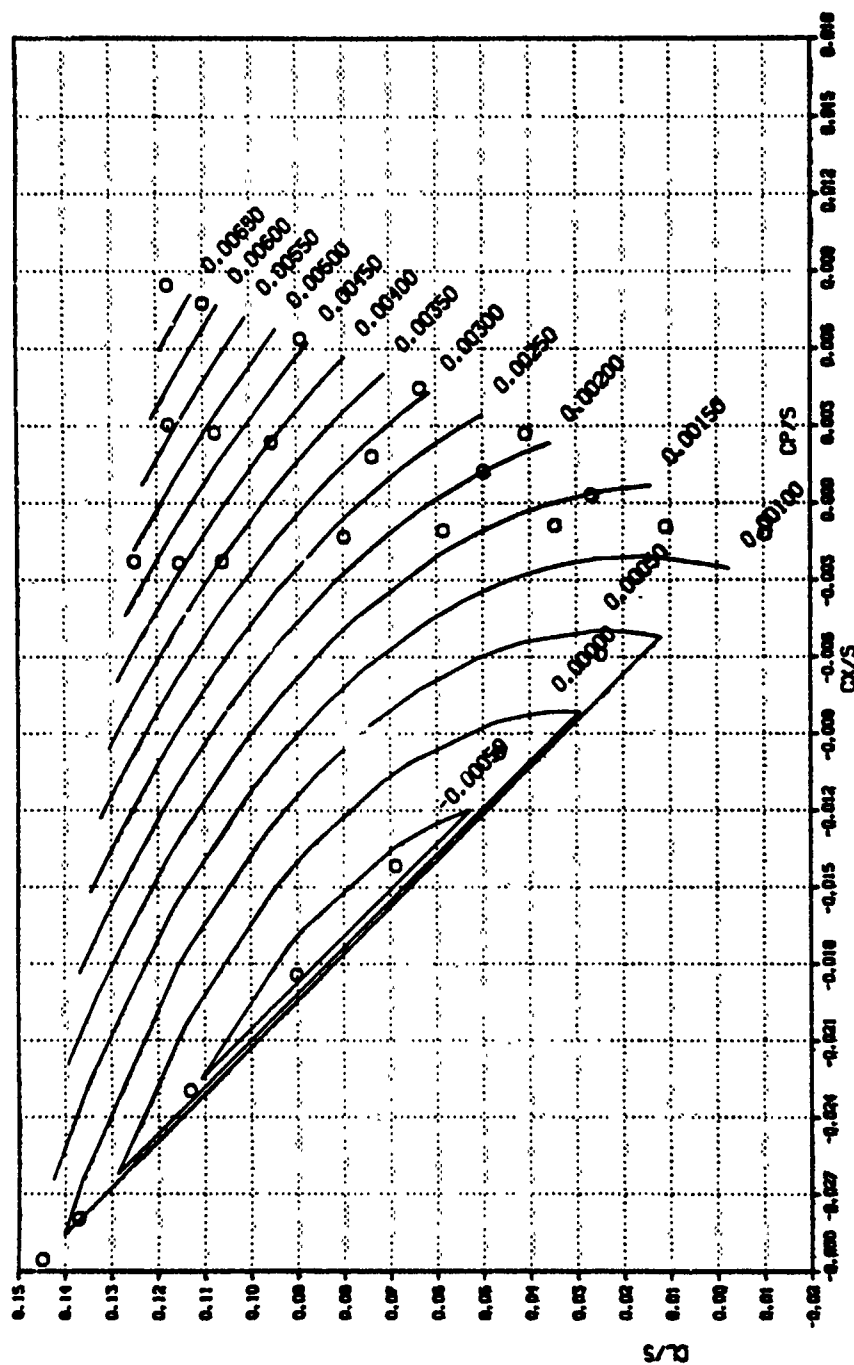
$E_v = 9.186 \times 10^{-3}$



04/24/80
03 12 47
1

RECTANGULAR TIP, V/OR - .200, MIT - .720
POWER COEFFICIENT CP/S

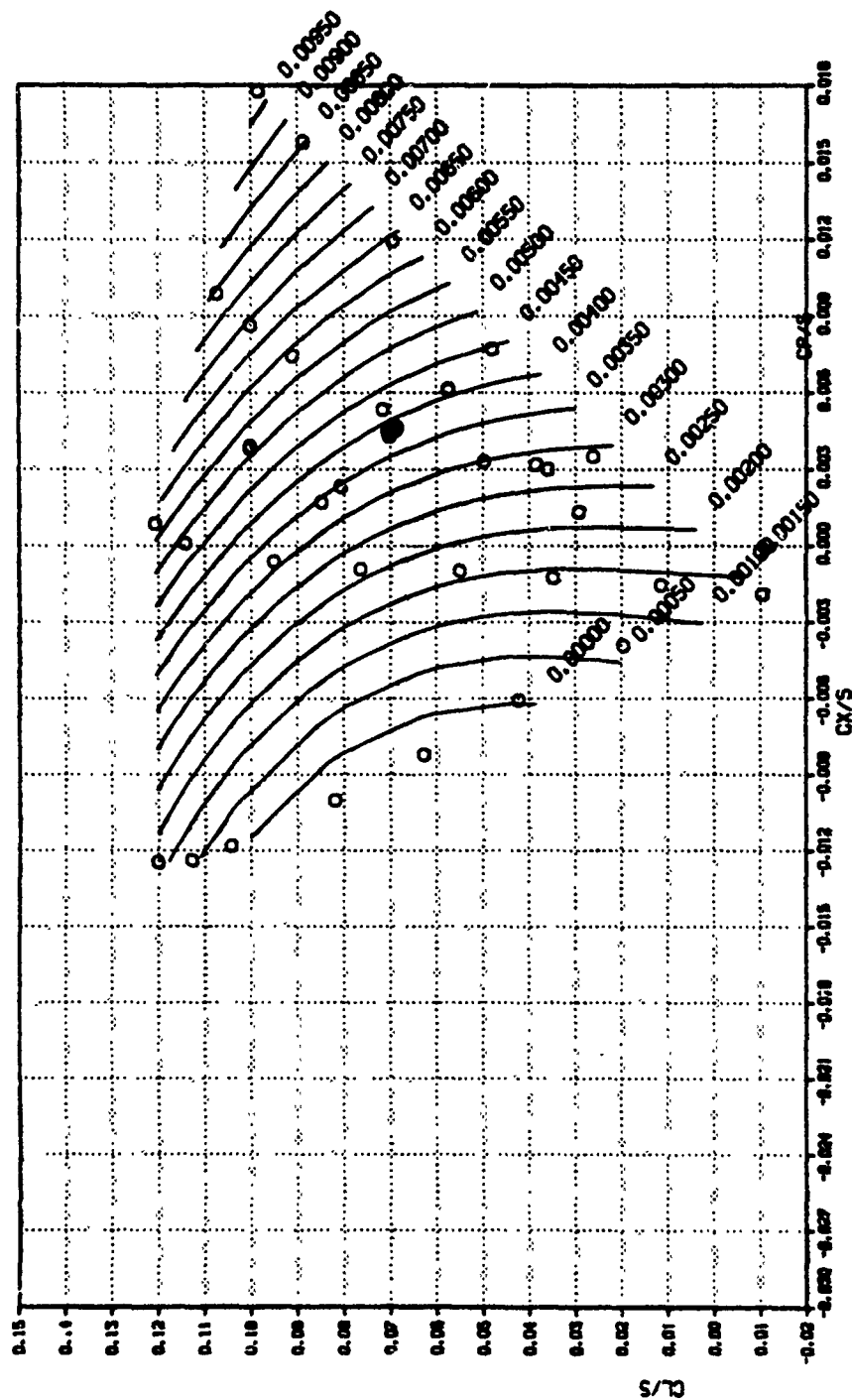
$C_v = 0.160 \times 10^{-4}$



04/24/80
03 19 02
2

RECTANGULAR TIP, V/OR - .300, M/T - .780
POWER COEFFICIENT CP/S

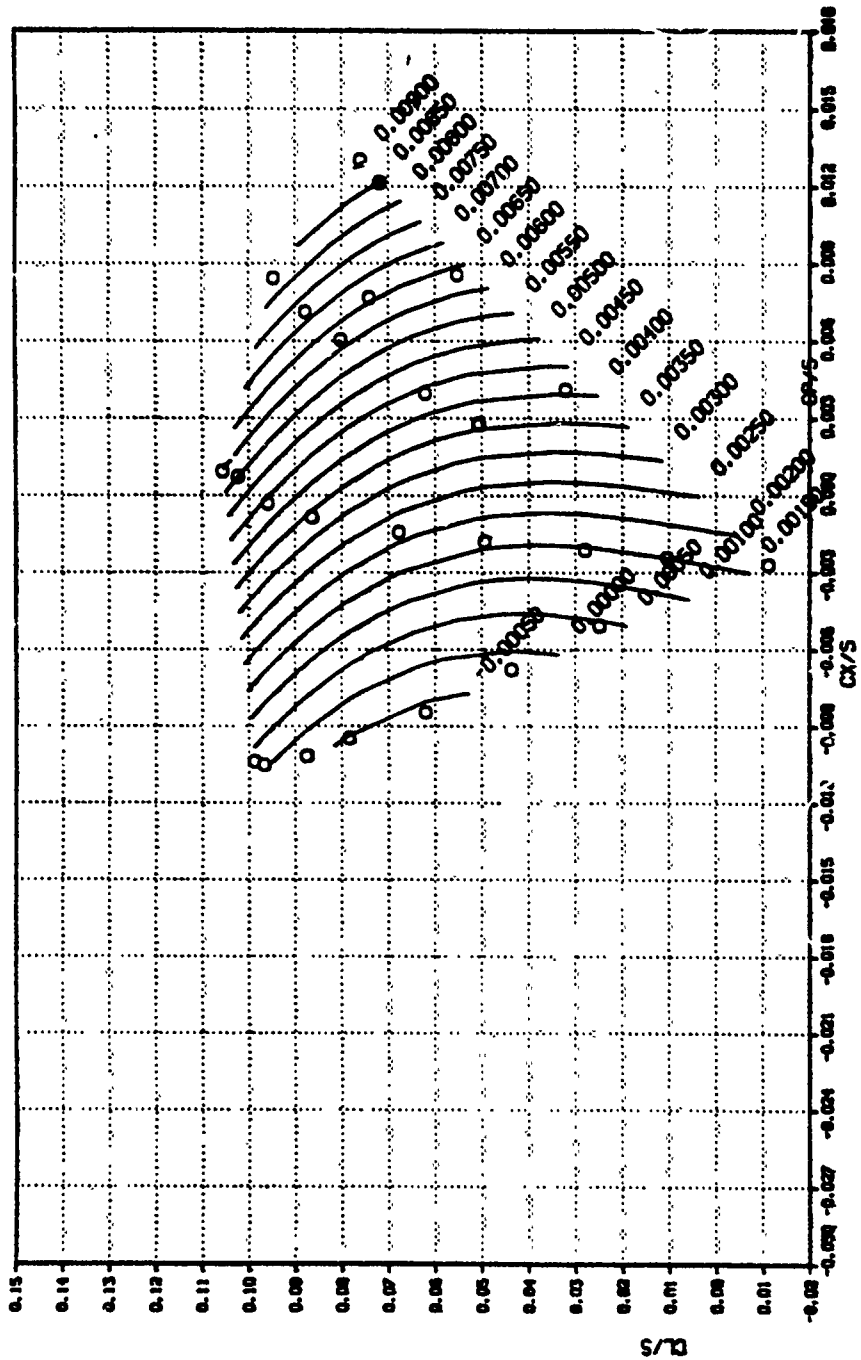
CV - 1.602×10^{-3}



04/24/80
03 28 44
3

RECTANGULAR TIP, V/OR = .375, HWT = .825
POWER COEFFICIENT CP/S

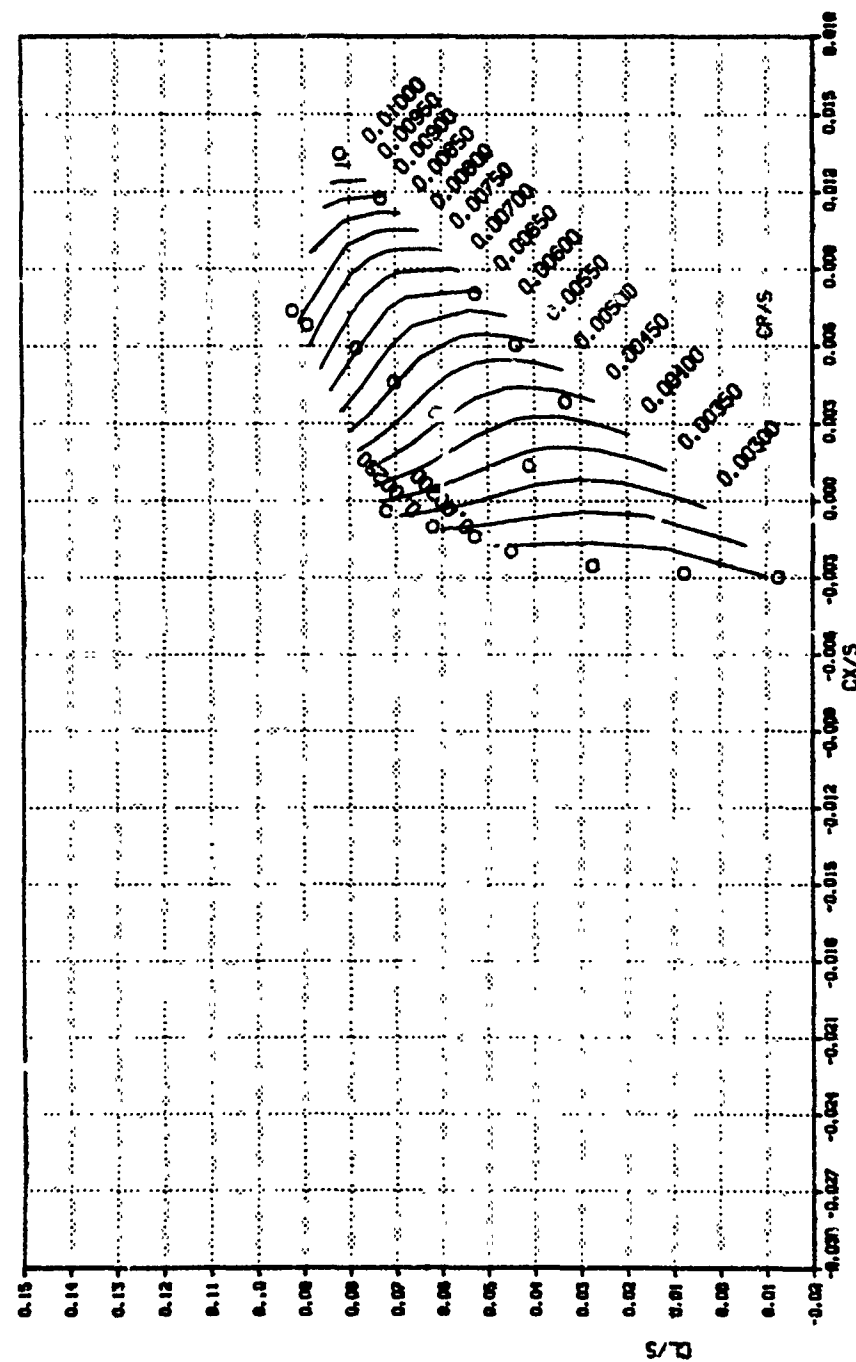
CV = 1.712×10^{-3}



04/24/80
03 33 55
4

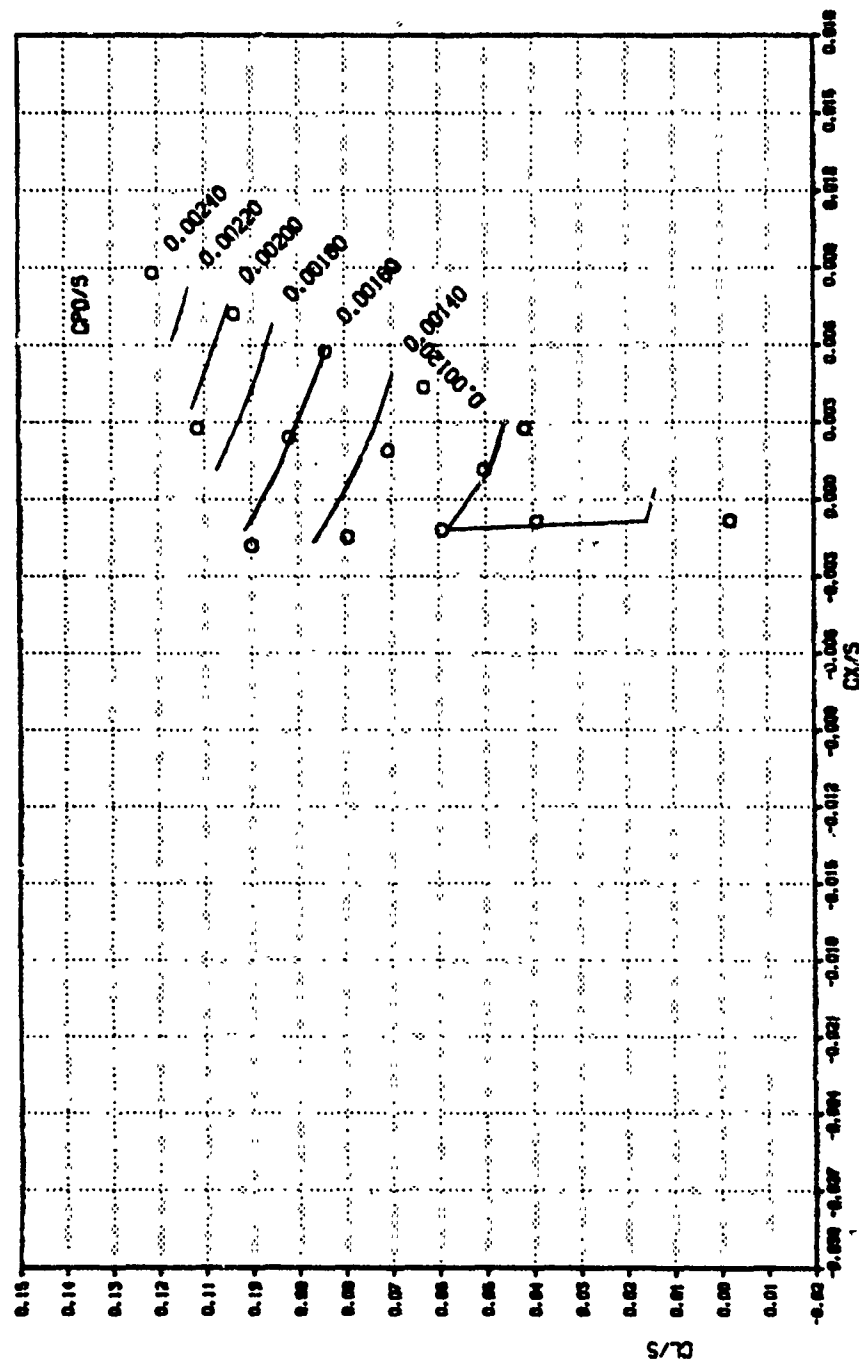
RECTANGULAR TIP, V/OR = .375, MAT = .895
POWER COEFFICIENT CP/S

$C_v = 8.874 \times 10^{-3}$



04/25/80
14 25 48
3

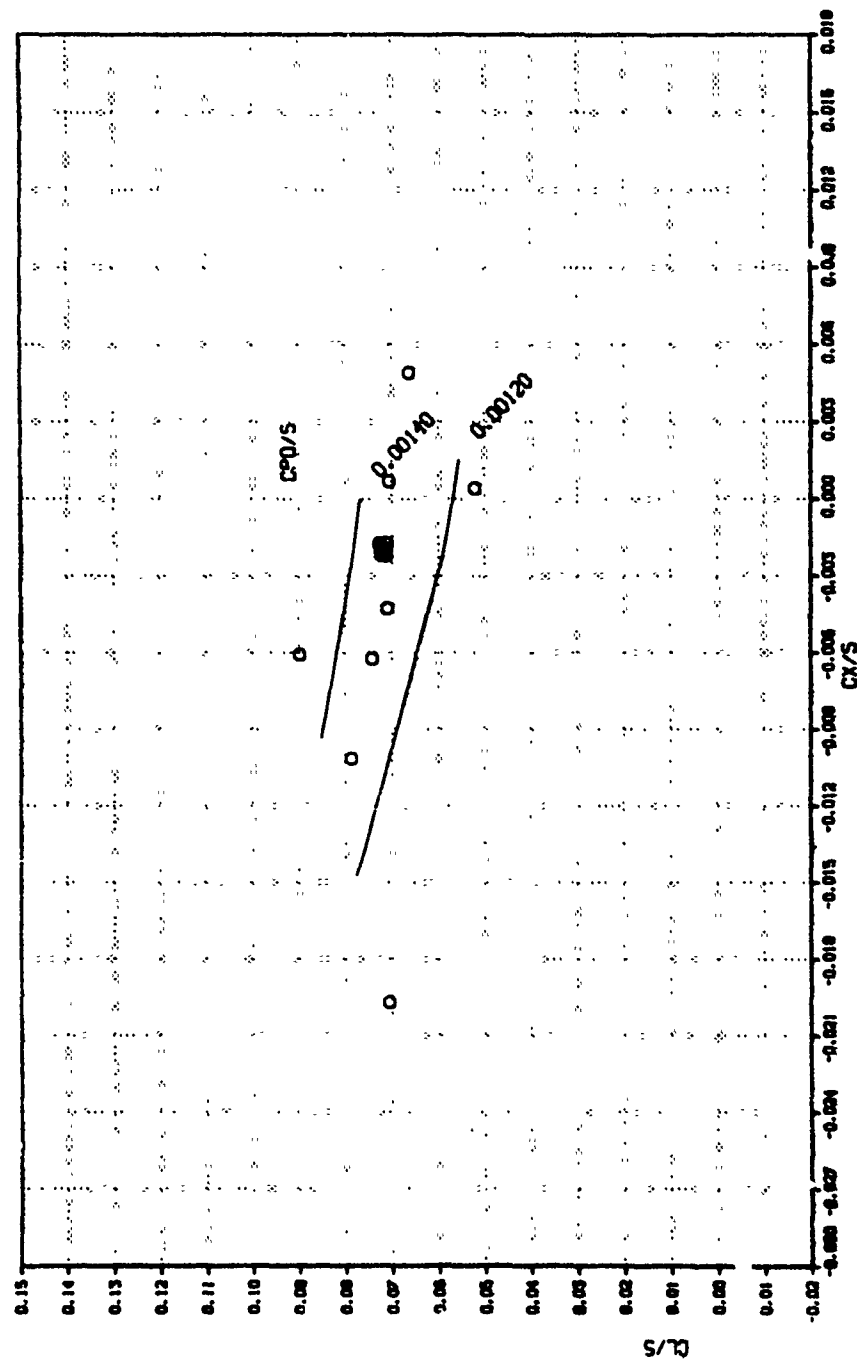
Ev - 1.164e10
SHEPT/TAPERED TIP, V/OR - .200, WIT - .660
NONIDEAL POWER COEFFICIENT CPD/S



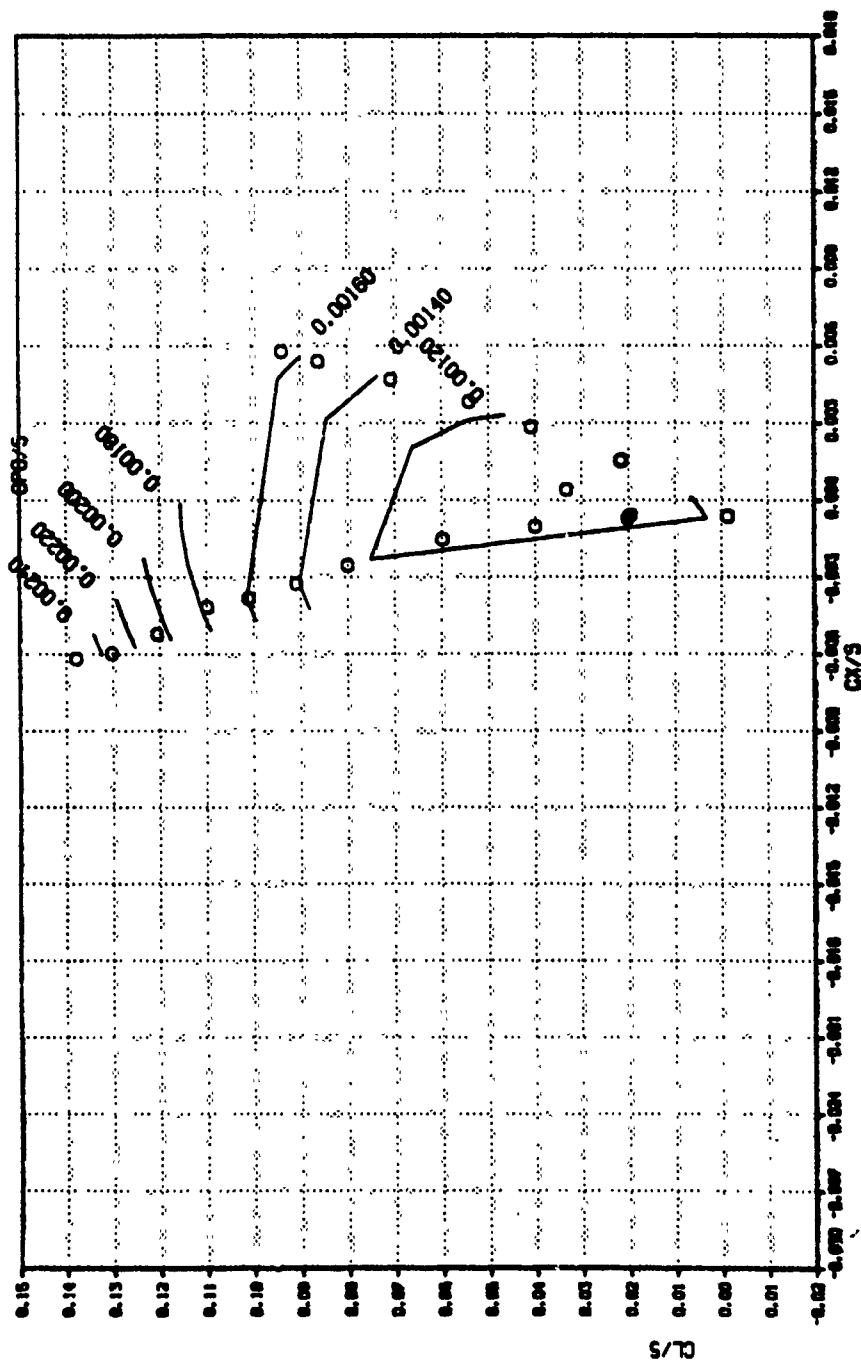
04/26/80
14 22 48
1

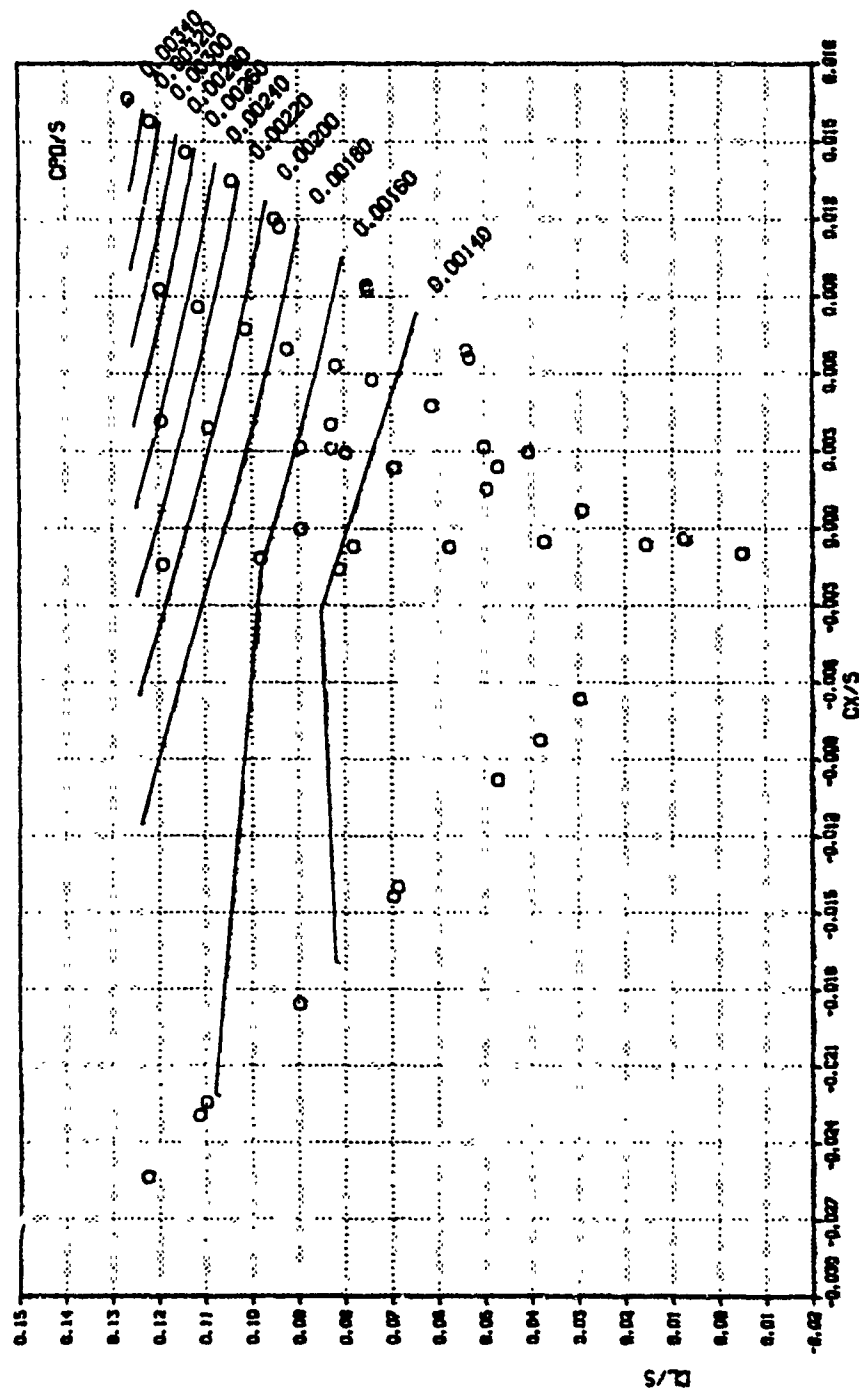
SHIPT/TAPERED TIP, V/OR = .075, MAT = .640
NONIDEAL POWER COEFFICIENT CPO/S

EV - 3.031=10⁻⁴



Ev - 1.533×10^{-1}

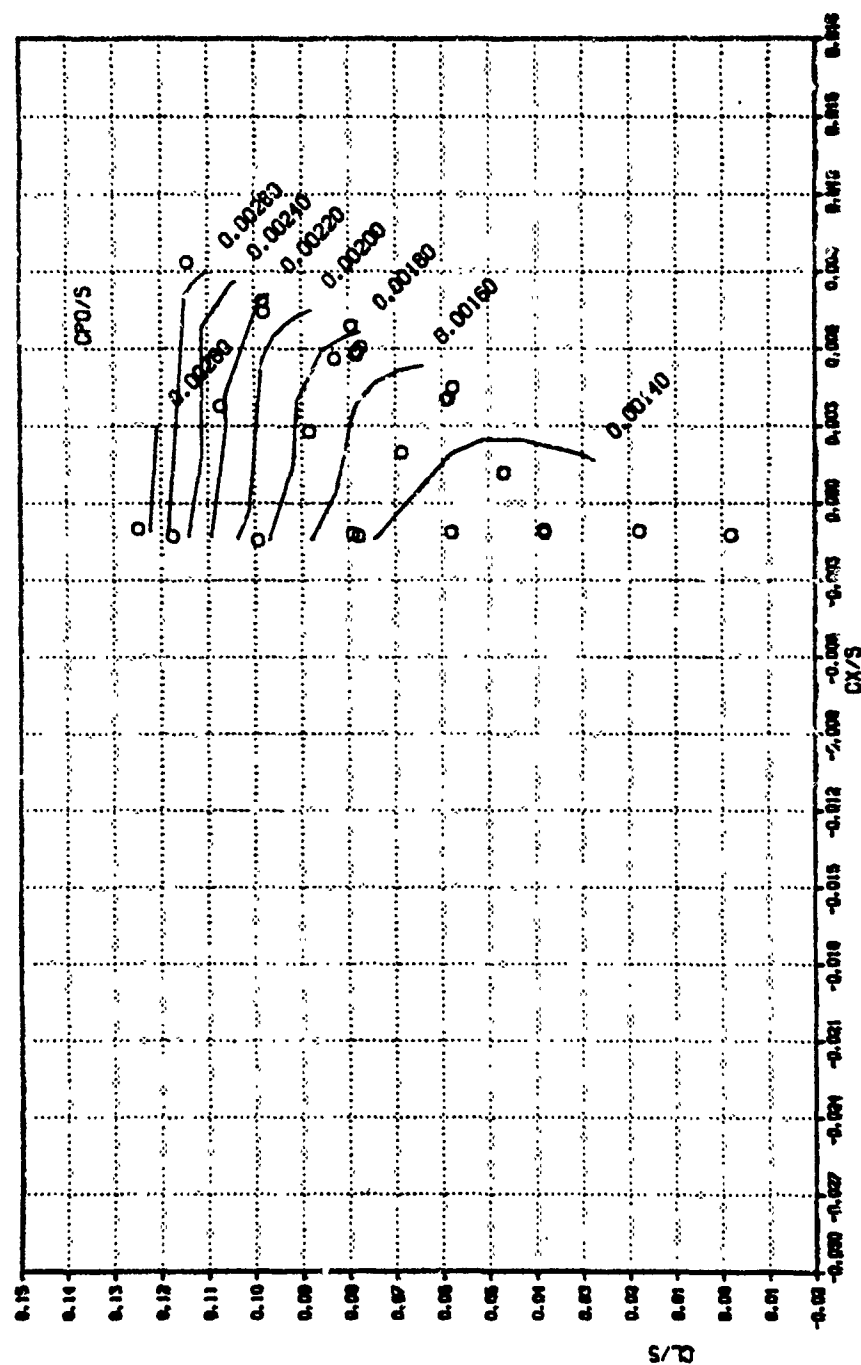


$$E_v = 1.272 \times 10^9$$


04/23/83
21 21 30
S

SHEPT/TAPERED TIP, V/OR - .250, NWT - .750
NONIDERL POWER COEFFICIENT CPD/S

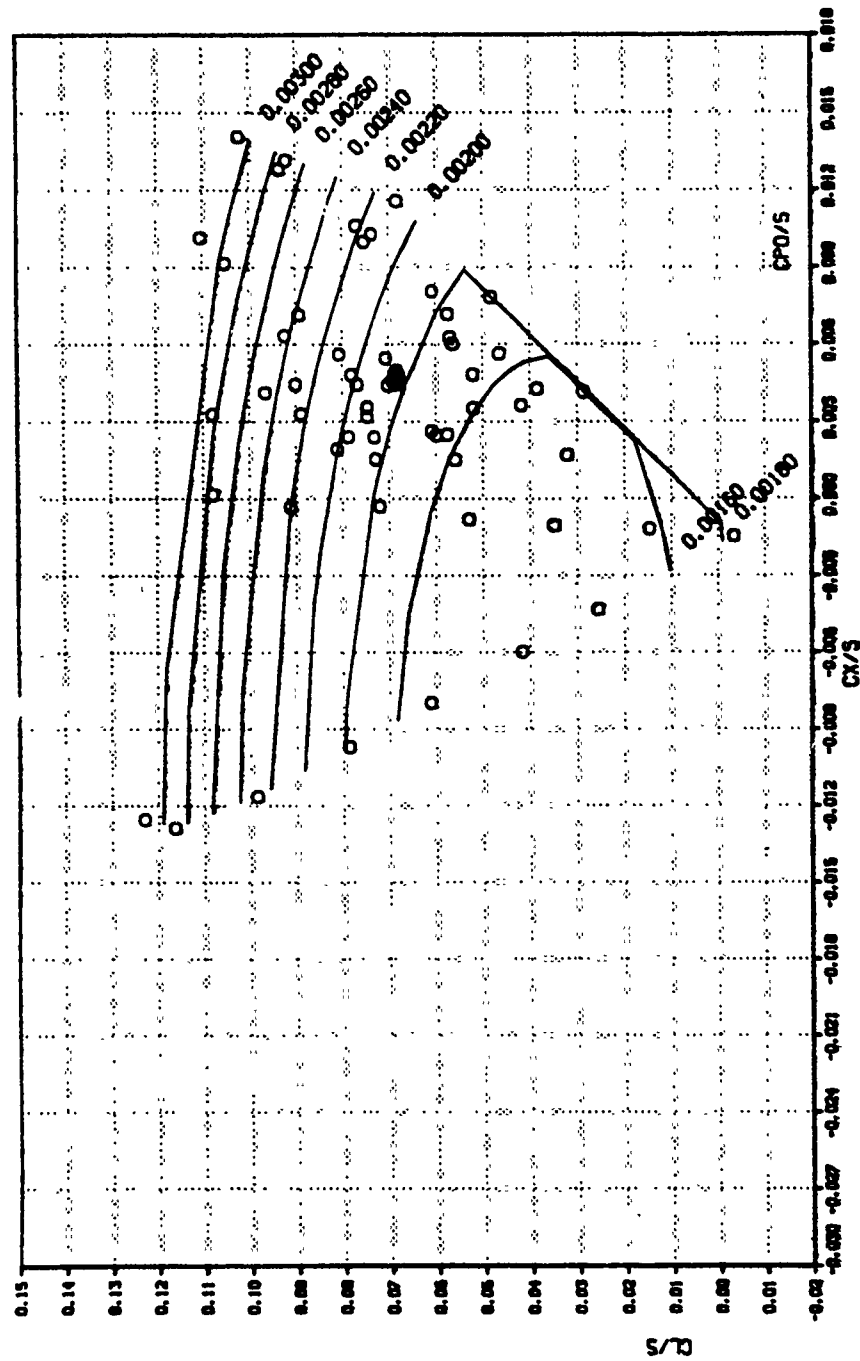
$C_v = 0.526 \times 10^{-4}$

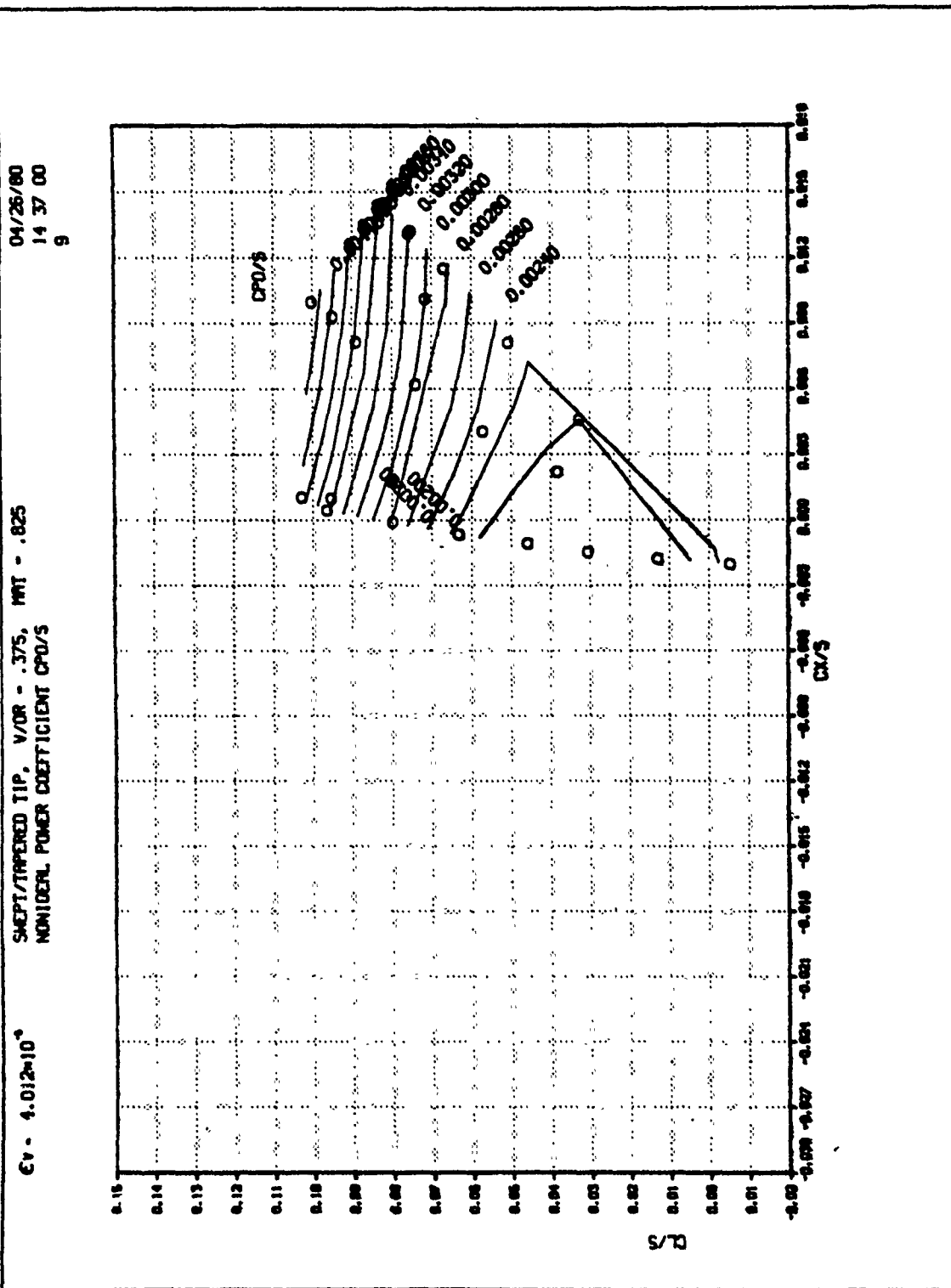


04/26/80
14 34 25
8

SHEPT/TAPERED TIP, V/OR - .300, MAT - .780
NONIDEAL POWER COEFFICIENT CPD/S

$\epsilon_v = 1.792 \times 10^{-4}$

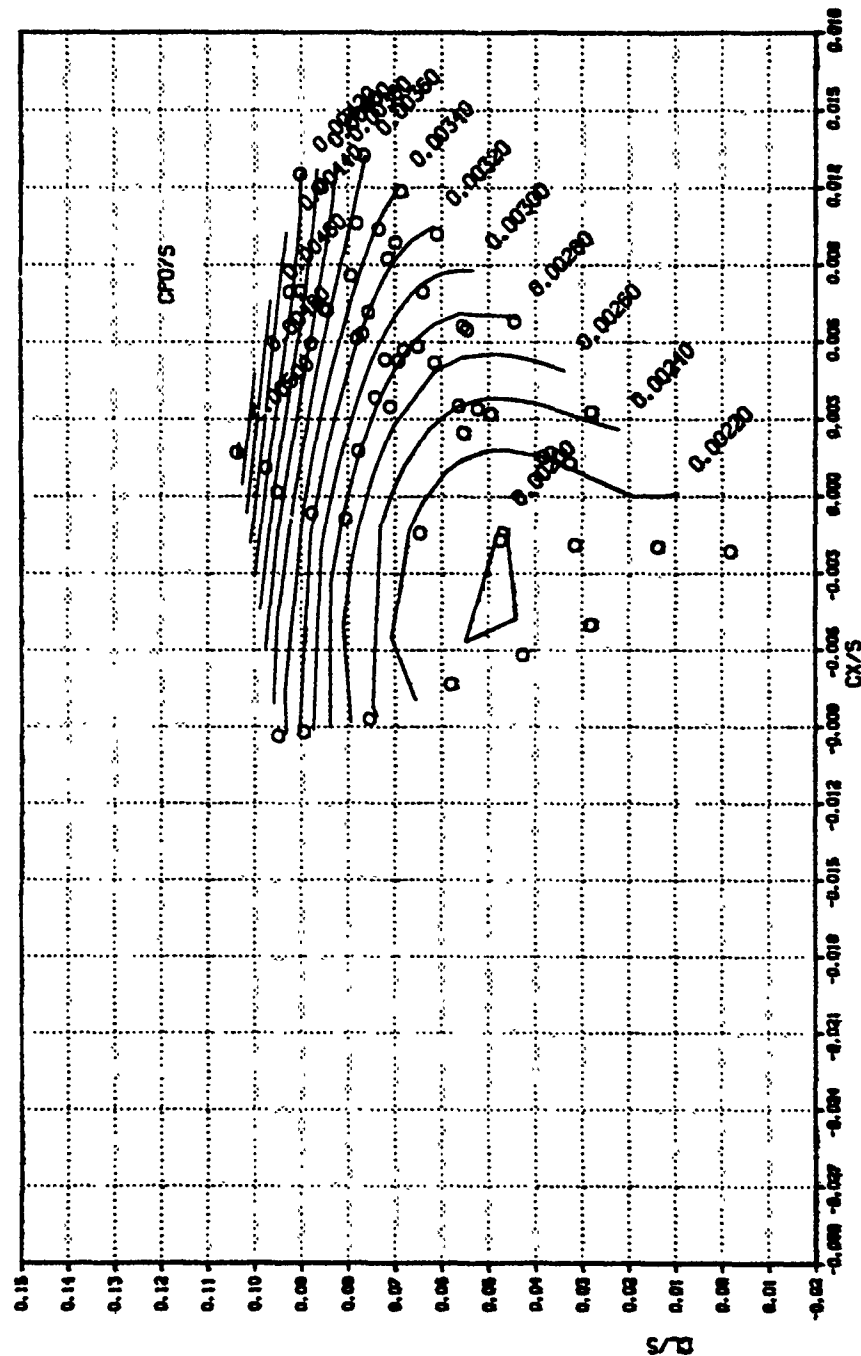




04/23/80
21 32 17
14

SWEPT/TAPERED TIP, V/OR = .400, M/T = .840
NONIDEAL POWER COEFFICIENT CPO/S

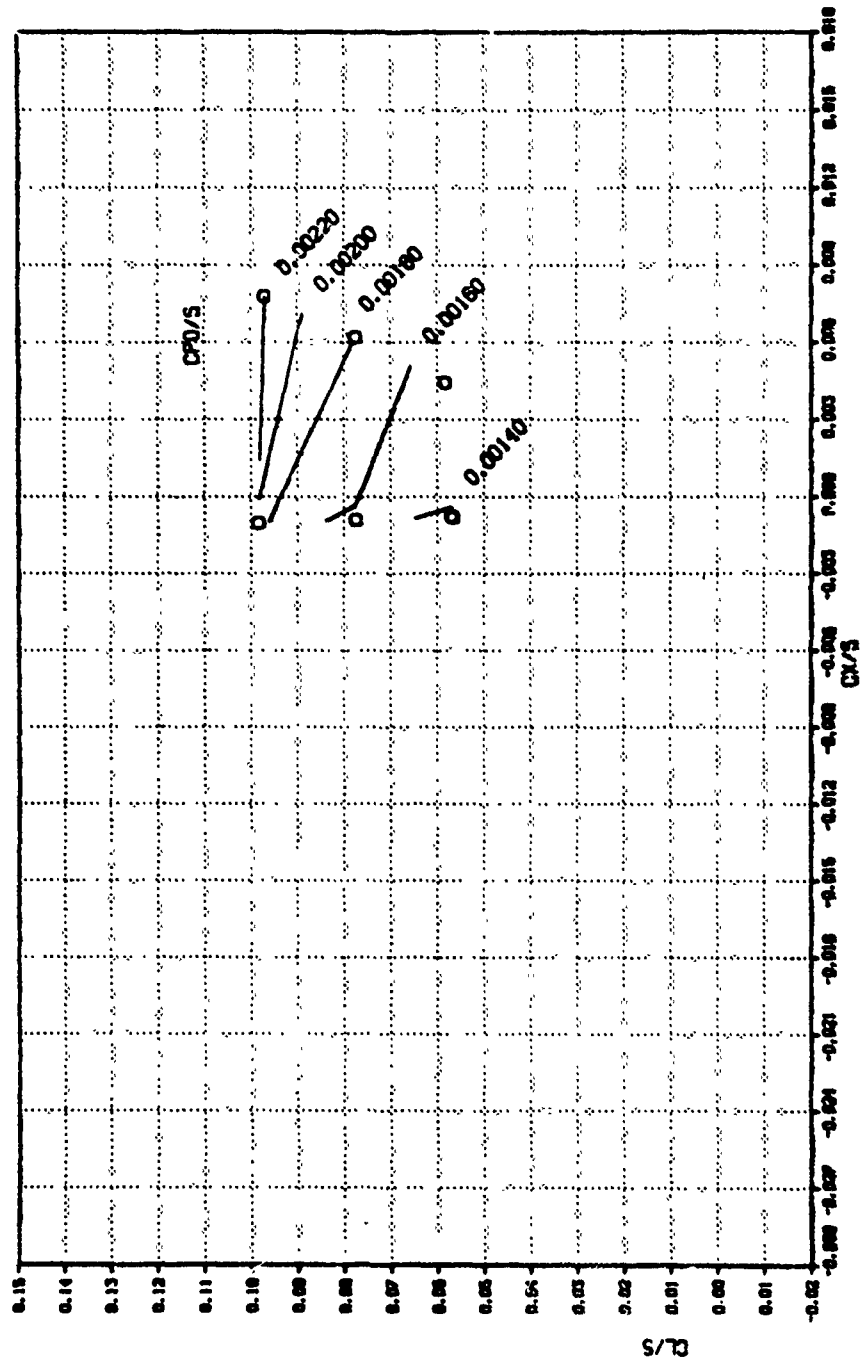
Cv = 1.820x10⁻⁴



04/26/80
14 30 21
6

SHEPT/IMPERED TIP, V/DK - .250, NRT - .015
NONIDEAL POWER COEFFICIENT CP0/S

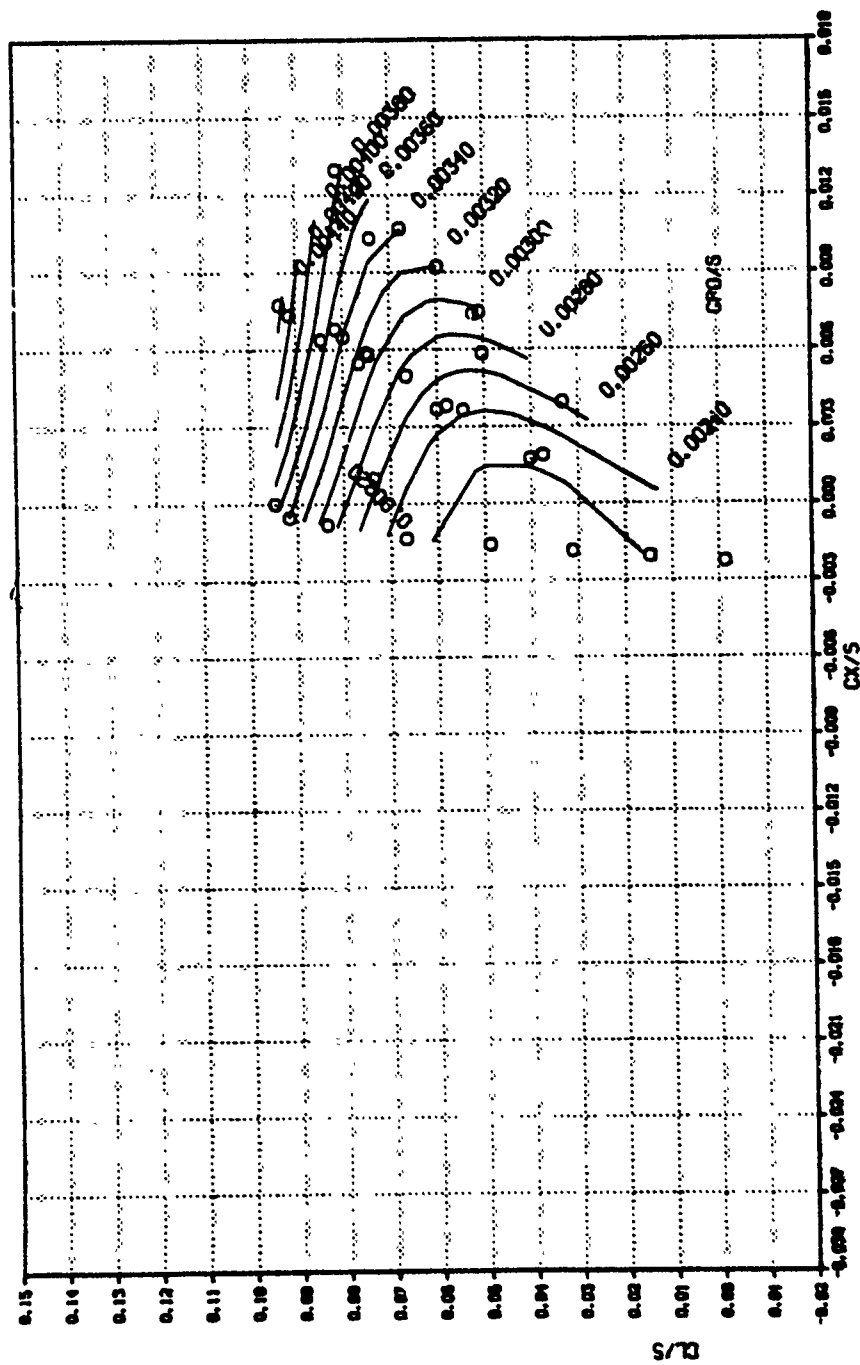
$C_v = 1.034 \times 10^{-4}$



04/23/80
21 27 59
10

SHOFT/TAPERED TIP, V/OR = .375, MAT = .885
NONIDEAL POWER COEFFICIENT CPO/S

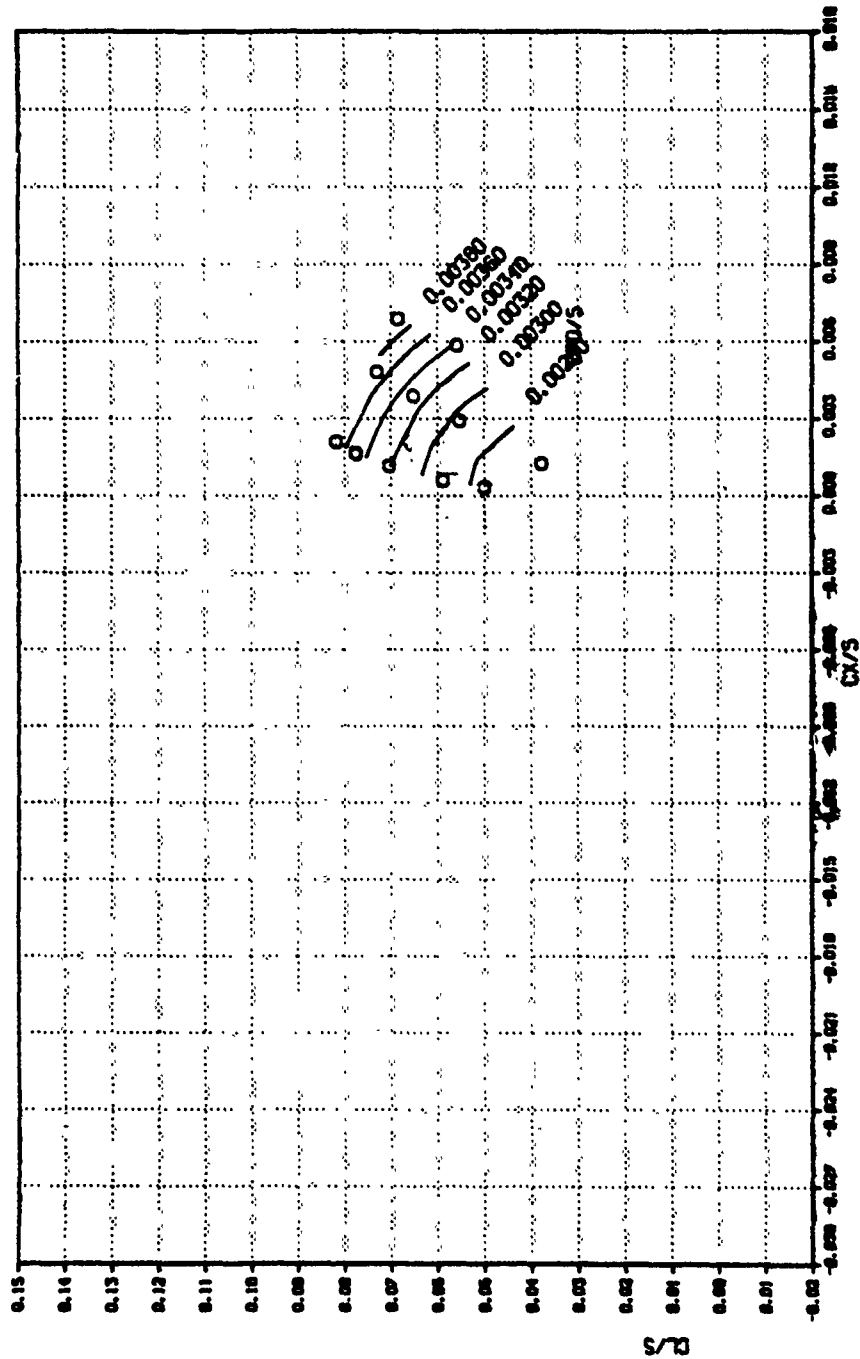
$C_v = 1.751 \times 10^{-3}$



04/26/80
14 41 48
11

SHEPT/TAPERED TIP, V/D = .375, MAT = .940
NONIDEAL POWER COEFFICIENT CPD/S

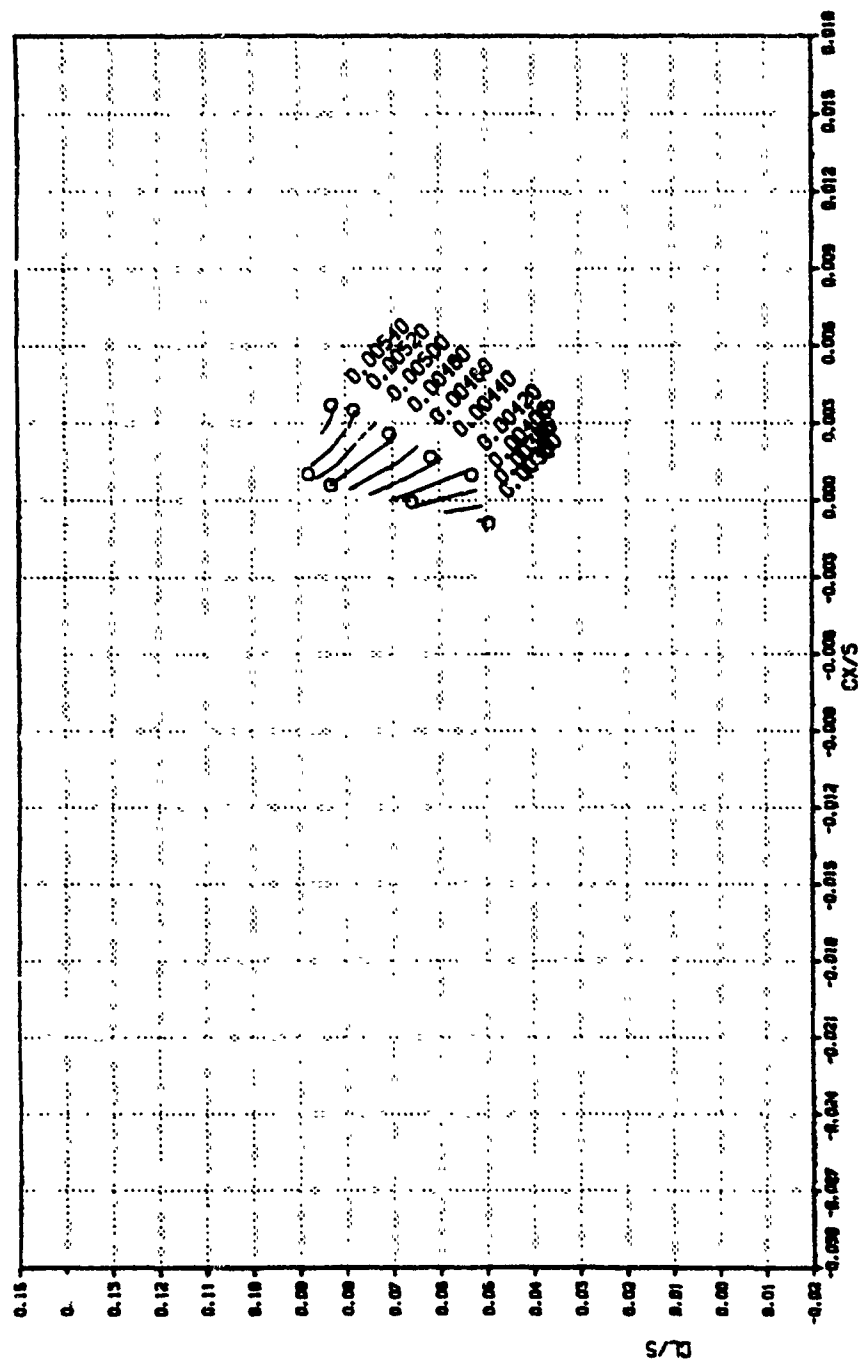
$E_v = 1.754 \times 10^{-4}$



04/26/90
14 44 08
12

SHIPT/TAPERED TIP, V/D = .375, MAT = .965
NONIDEAL POWER COEFFICIENT CP0/S

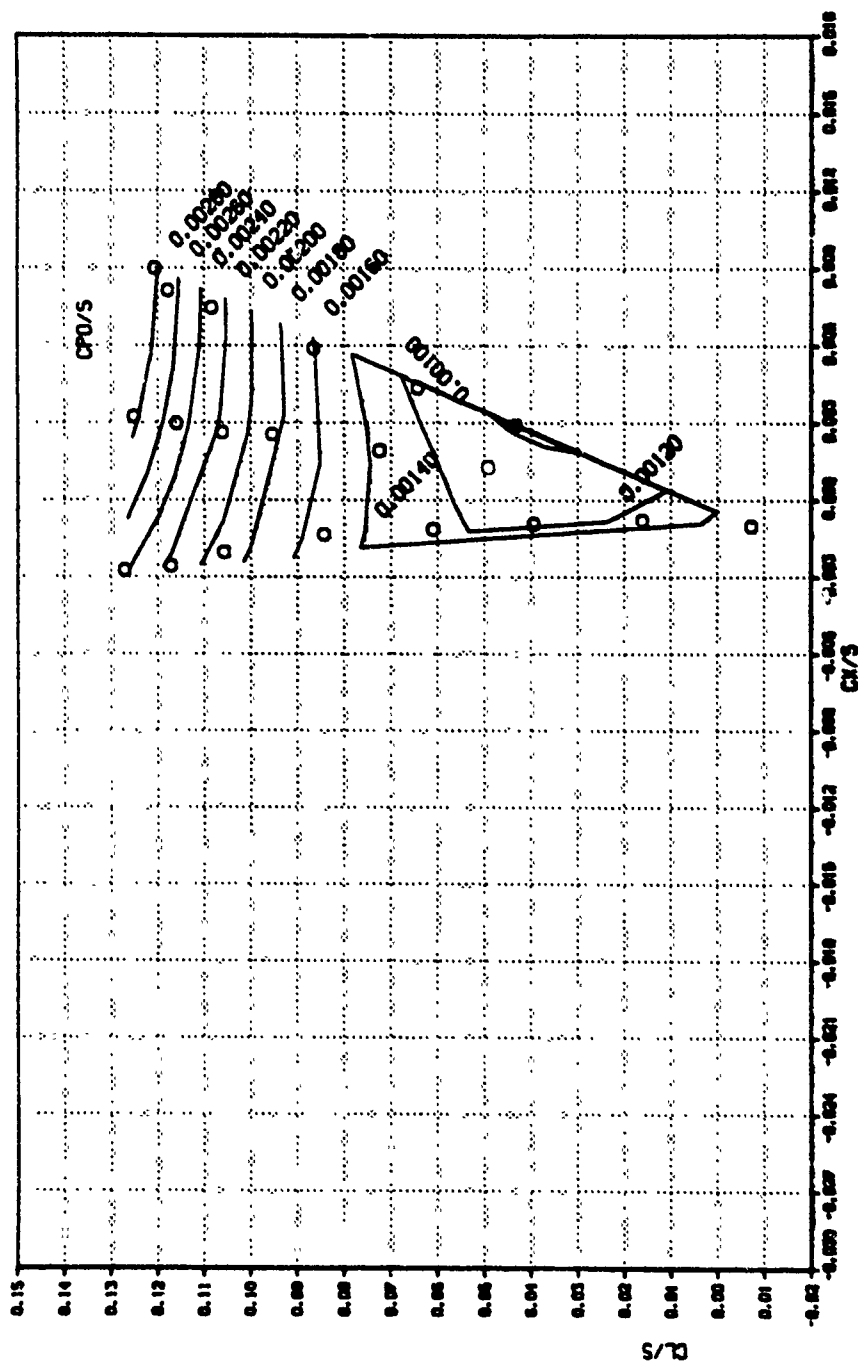
$C_v = 0.990 \times 10^{-4}$

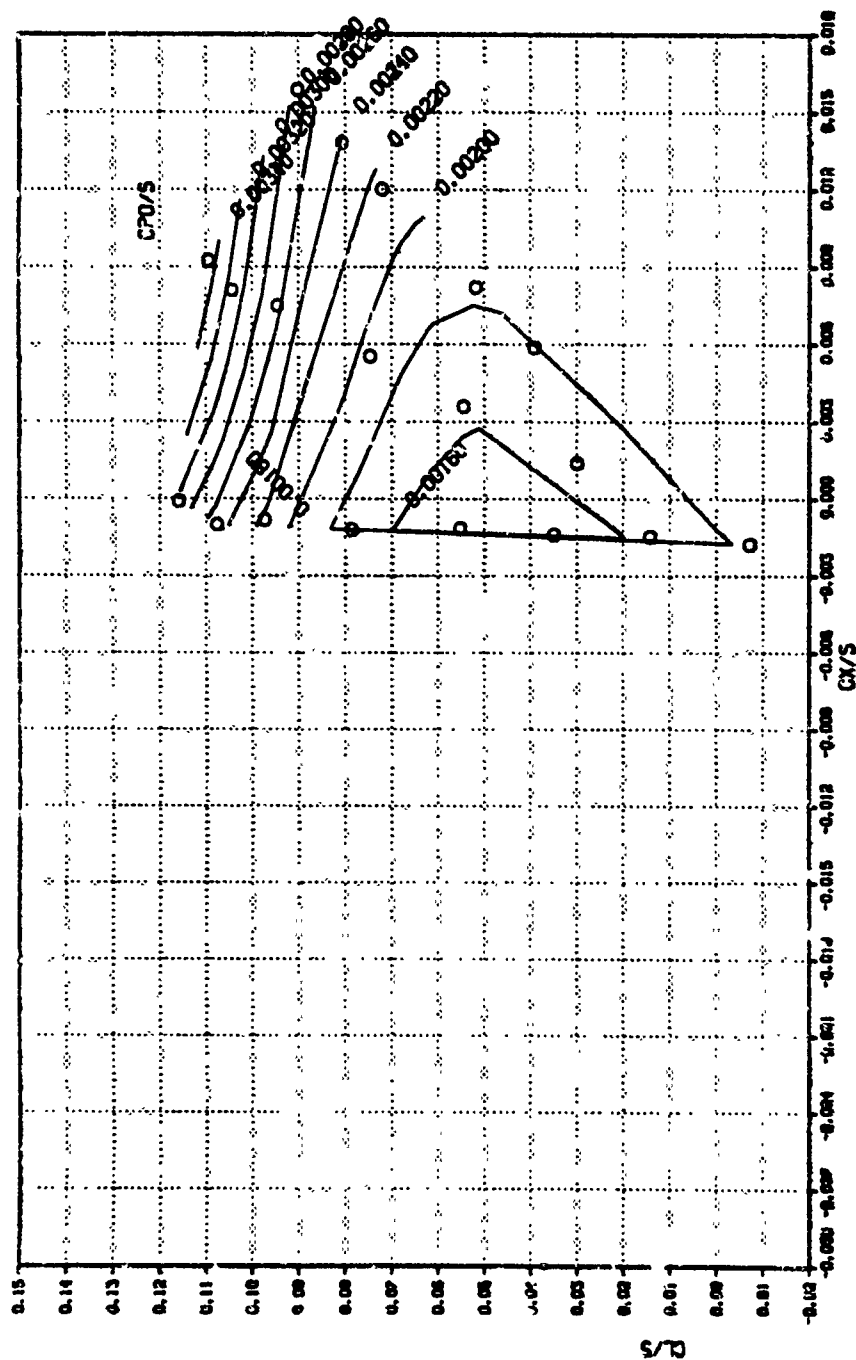


04/25/80
22 28 01
1

SHEPT TIP, V/OR = .200, HAT = .720
NONIDEAL POWER COEFFICIENT CPD/S

$E_v = 3.667 \times 10^{-4}$

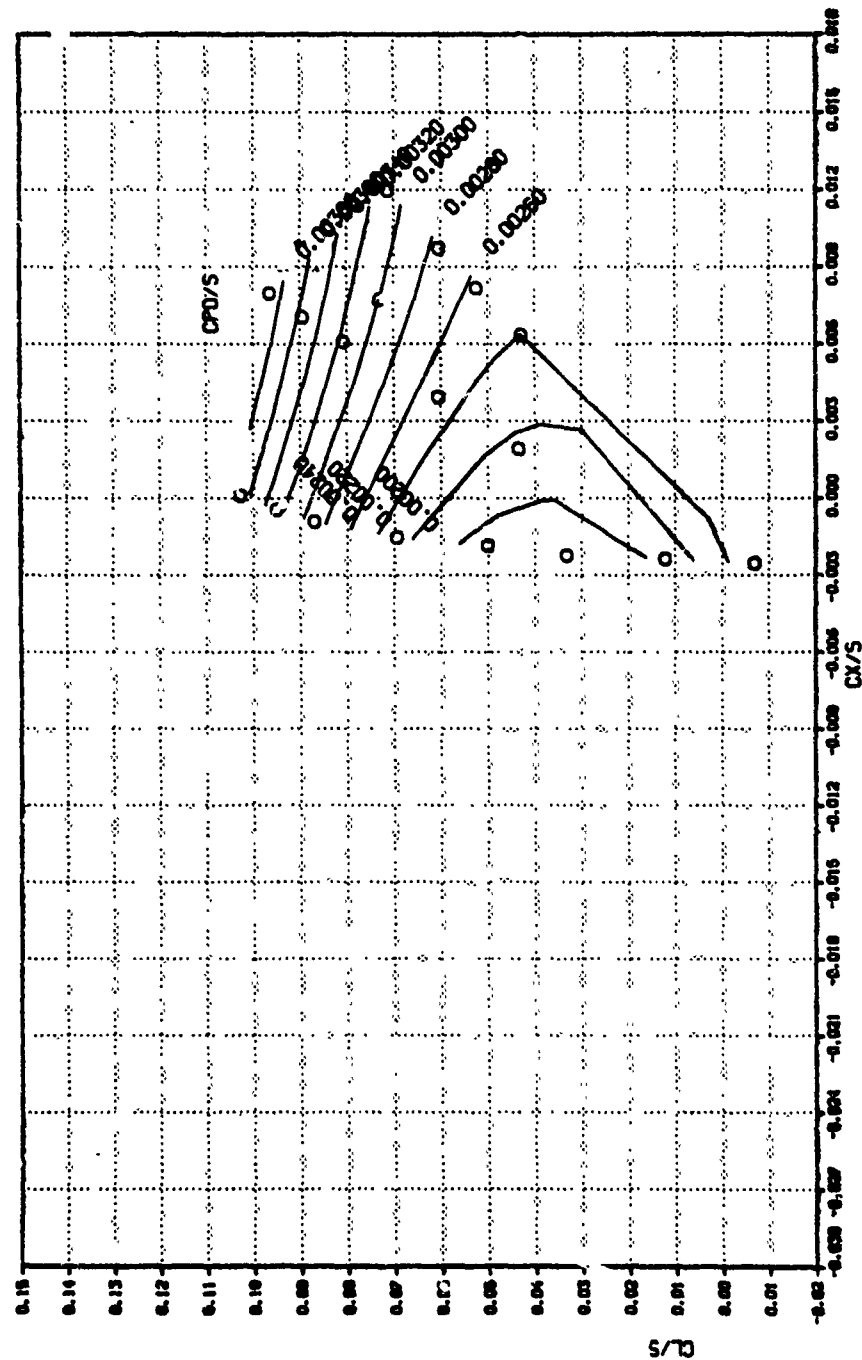


$$E_V = 1.452 \times 10^{-4}$$


04/25/80
22 33 56
3

SHIPT TIP, V/OR = .375, HRT = .825
NONIDEAL POWER COEFFICIENT C_{P0}/S

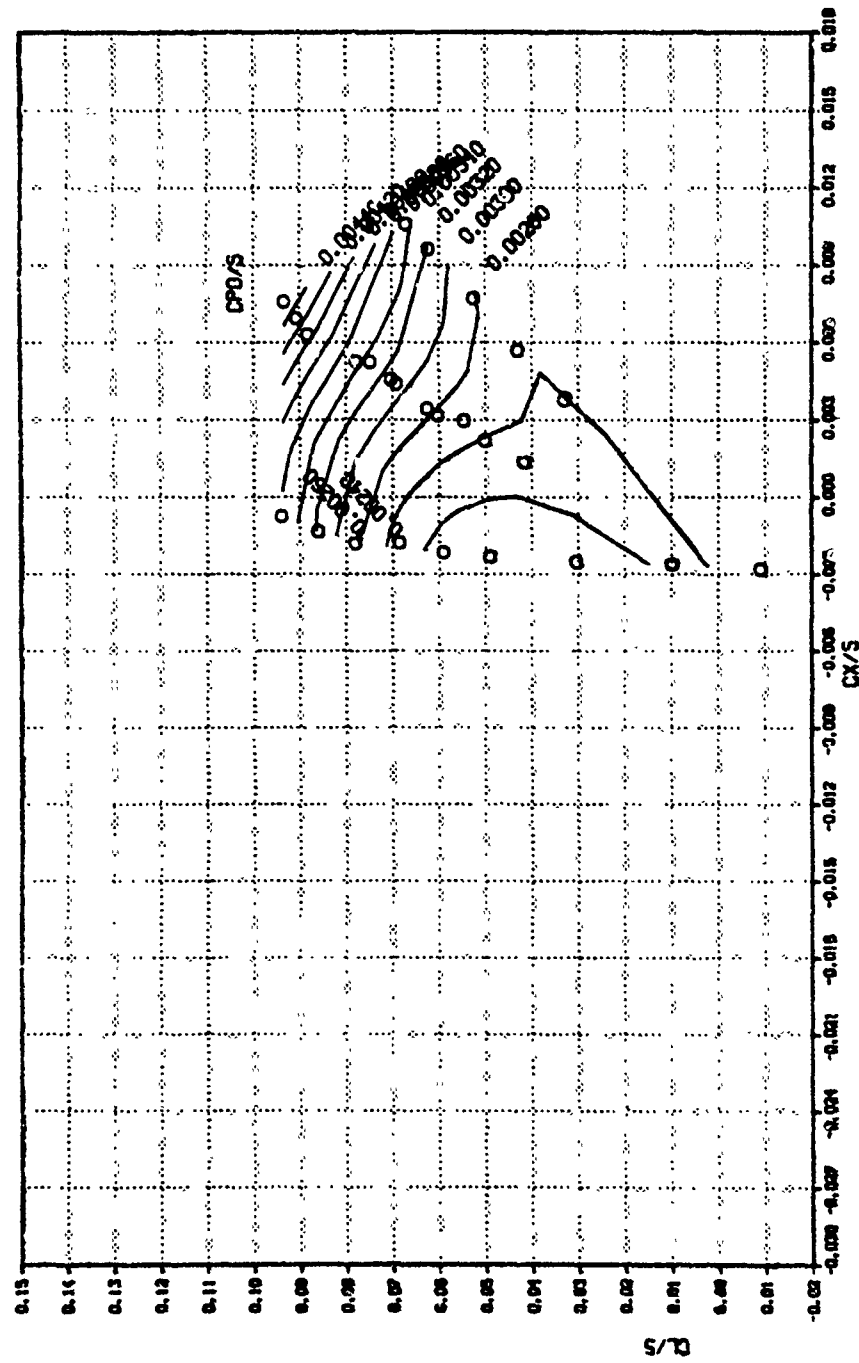
$C_v = 2.885 \times 10^{-4}$



04/24/80
03 46 21
4

SHEPT TIP, V/OR = .375, NAT = .895
NONIDEAL POWER COEFFICIENT CPO/S

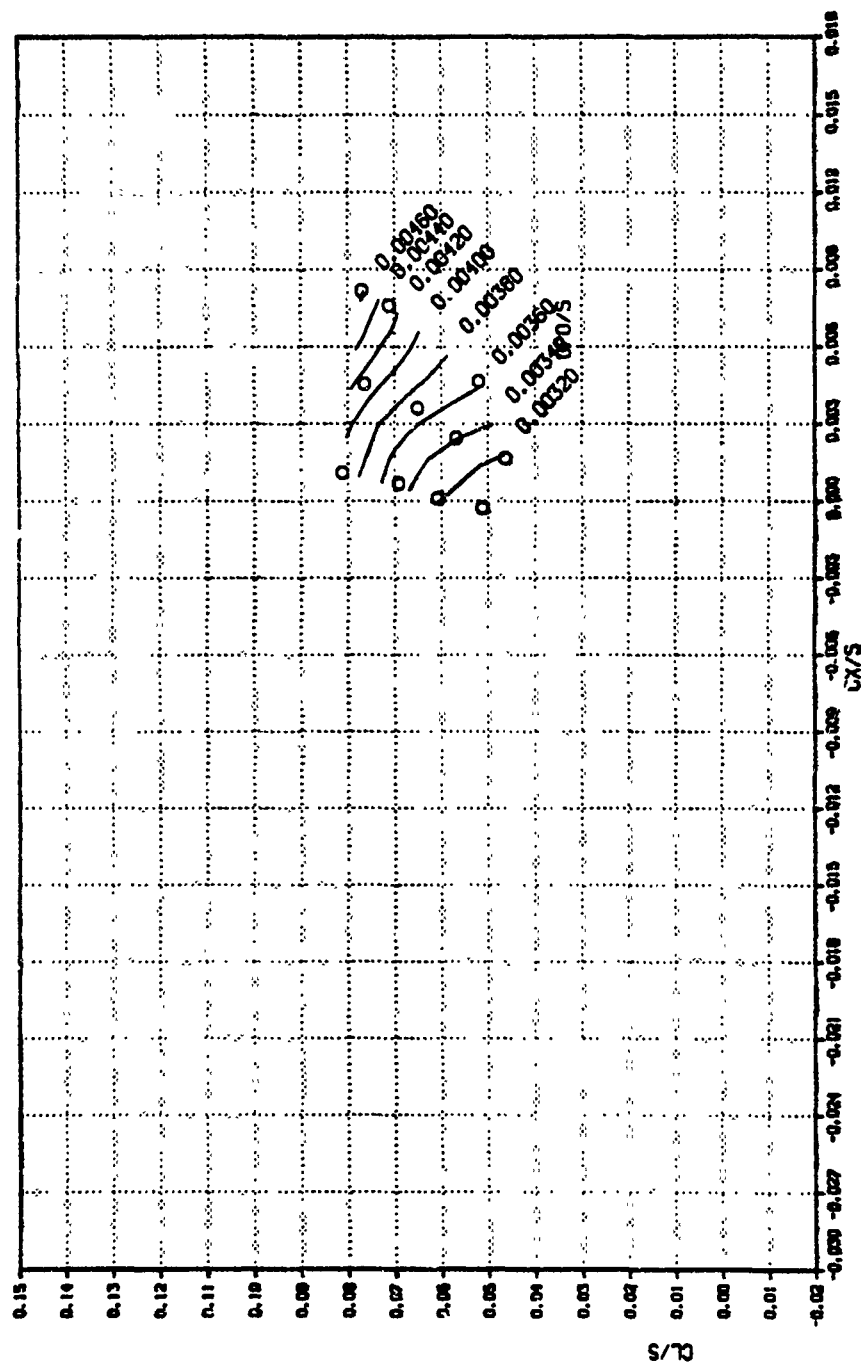
$\epsilon_v = 1.229 \times 10^{-4}$



04/24/80
03 48 14
5

SAFETY TIP, V/DR - .375, MWT - .940
NONISBL POWER COEFFICIENT CPD/S

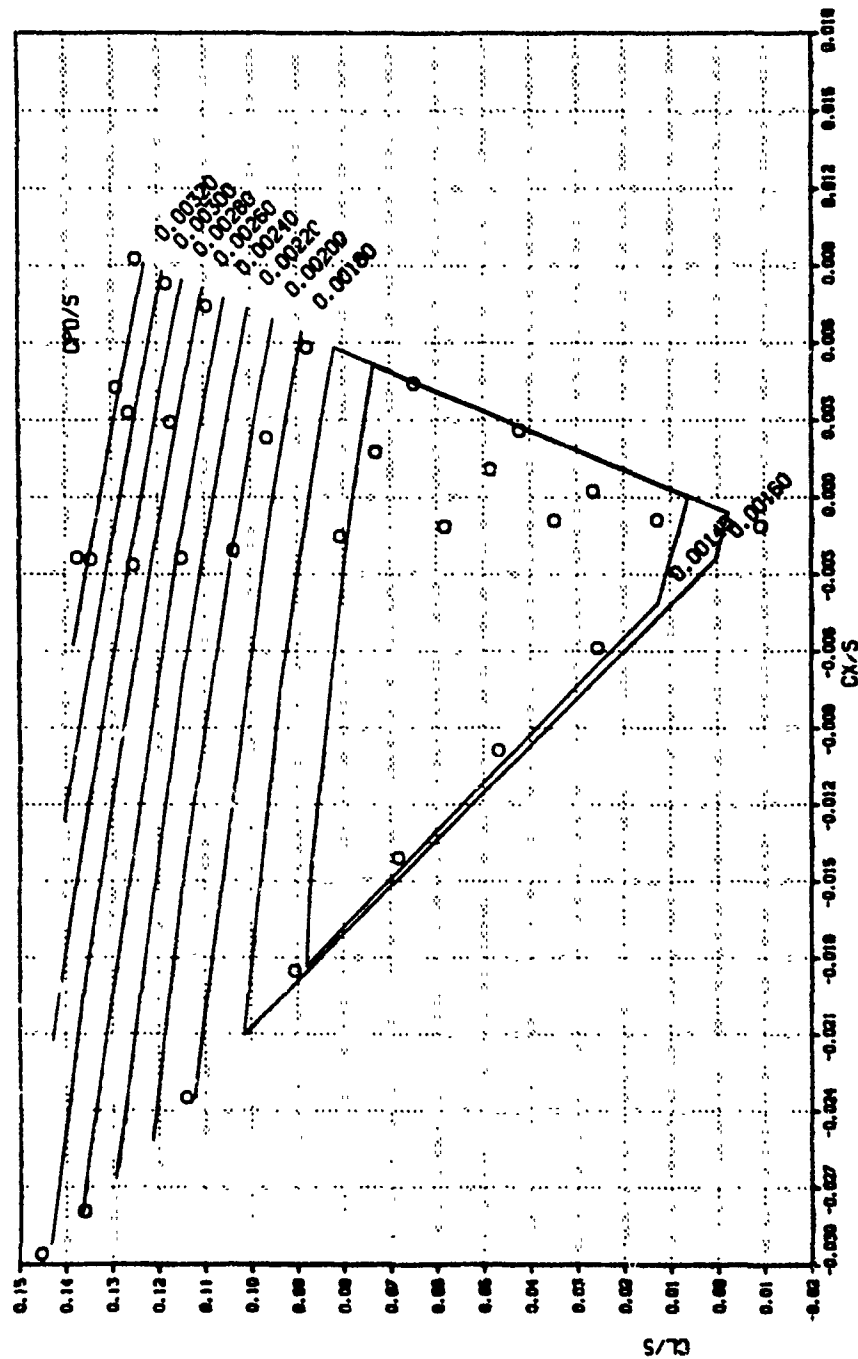
EV - 5.543x10⁻⁷



04/26/80
13 11 30
1

TAPERED TIP, V/DR = .200, IWT = .720
NONIDEAL POWER COEFFICIENT CPO/S

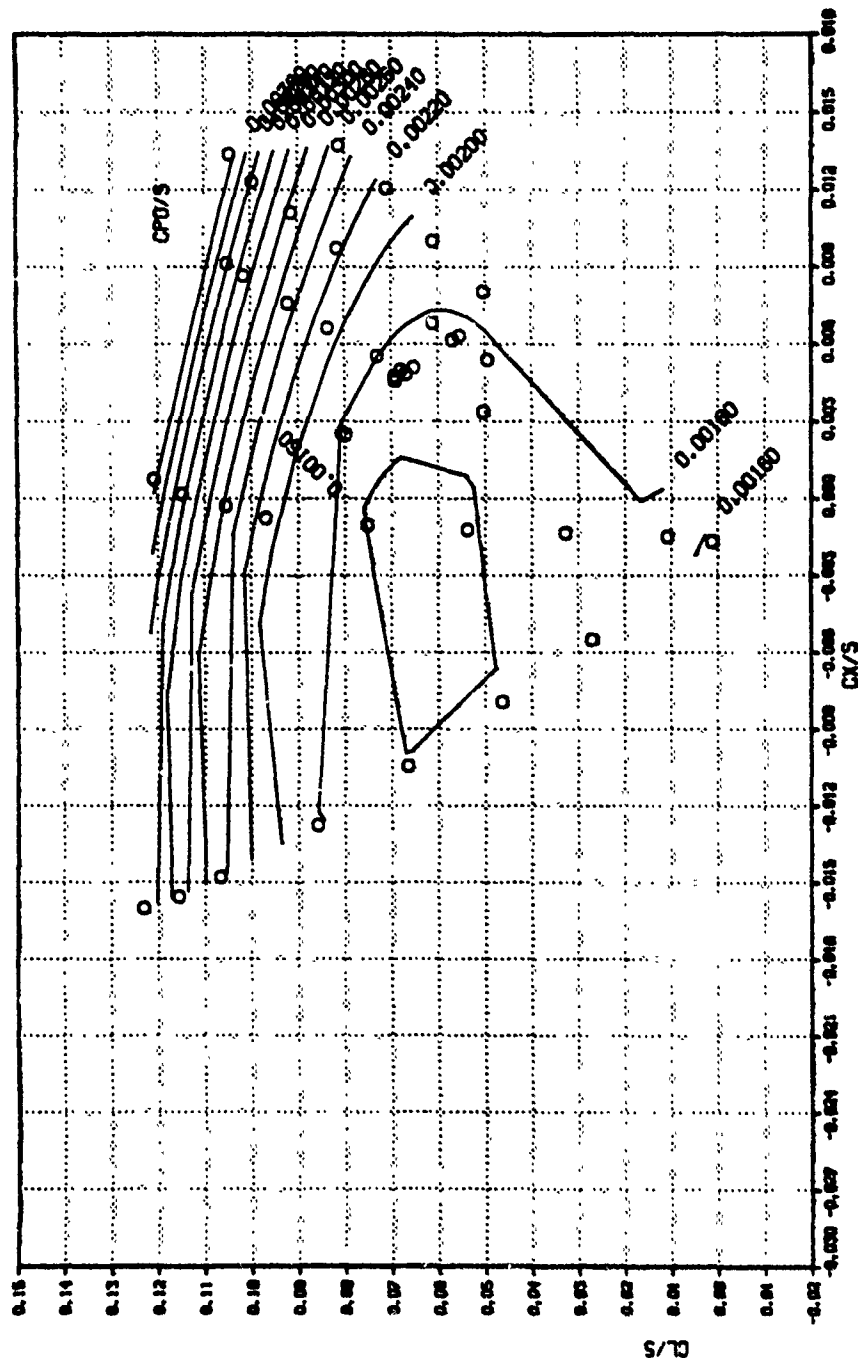
$C_v = 4.455 \times 10^{-3}$



04/24/80
02 37 25
2

TAPERED TIP, V/D = .300, H/T = .780
NONIDICAL POWER COEFFICIENT CPD/S

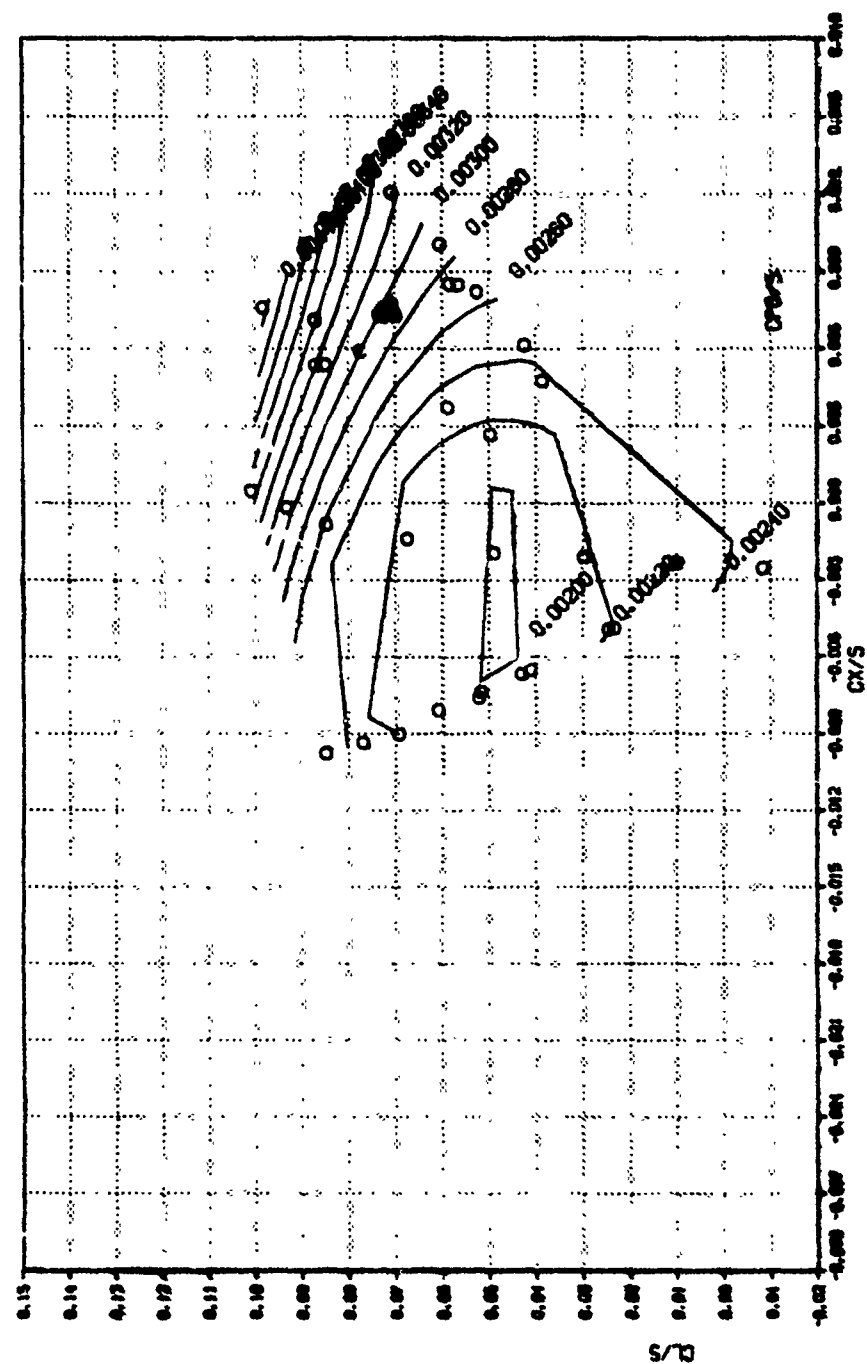
$\epsilon_v = 2.085 \times 10^{-3}$



04/24/80
02 43 05
3

IMPERF TIP, V/OR - .375, M/T - .825
NONIDEAL POWER COEFFICIENT CPO/S

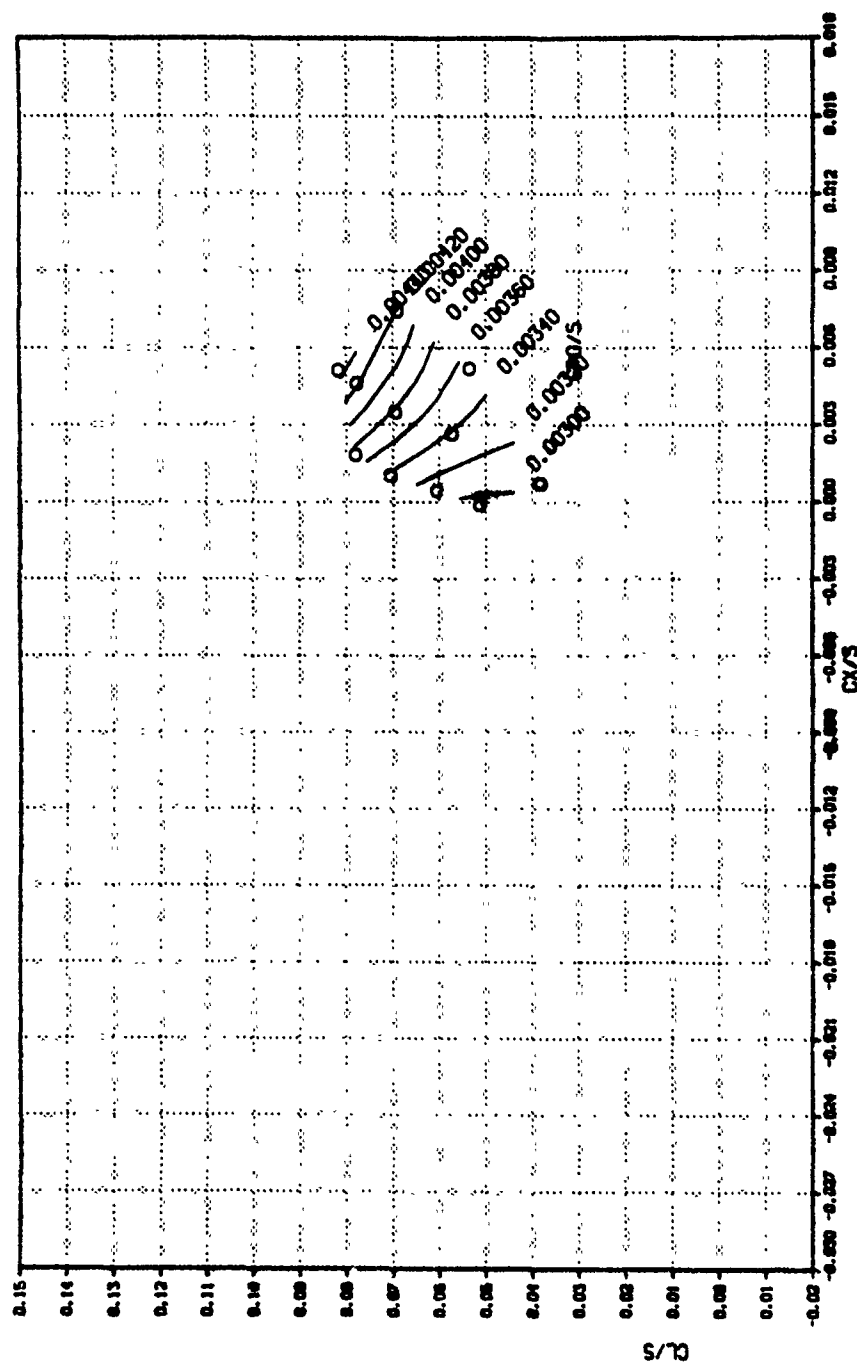
Ev - 1.703-10⁴

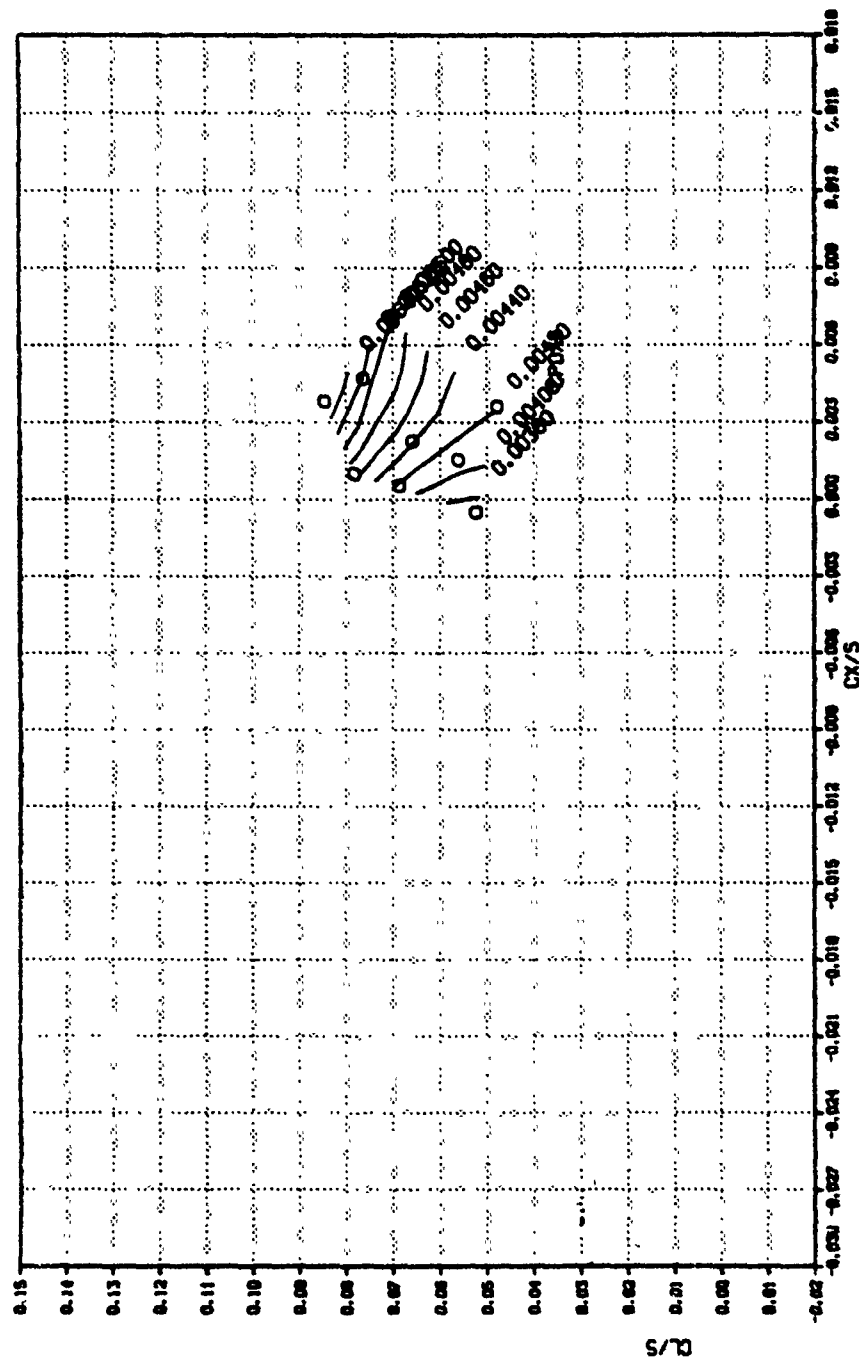


04/26/80
13 20 42
4

TAPERED TIF, V/OR = .375, NAT = .940
NONIDEAL POWER COEFFICIENT CPO/S

Ev - 1.173×10^{-9}

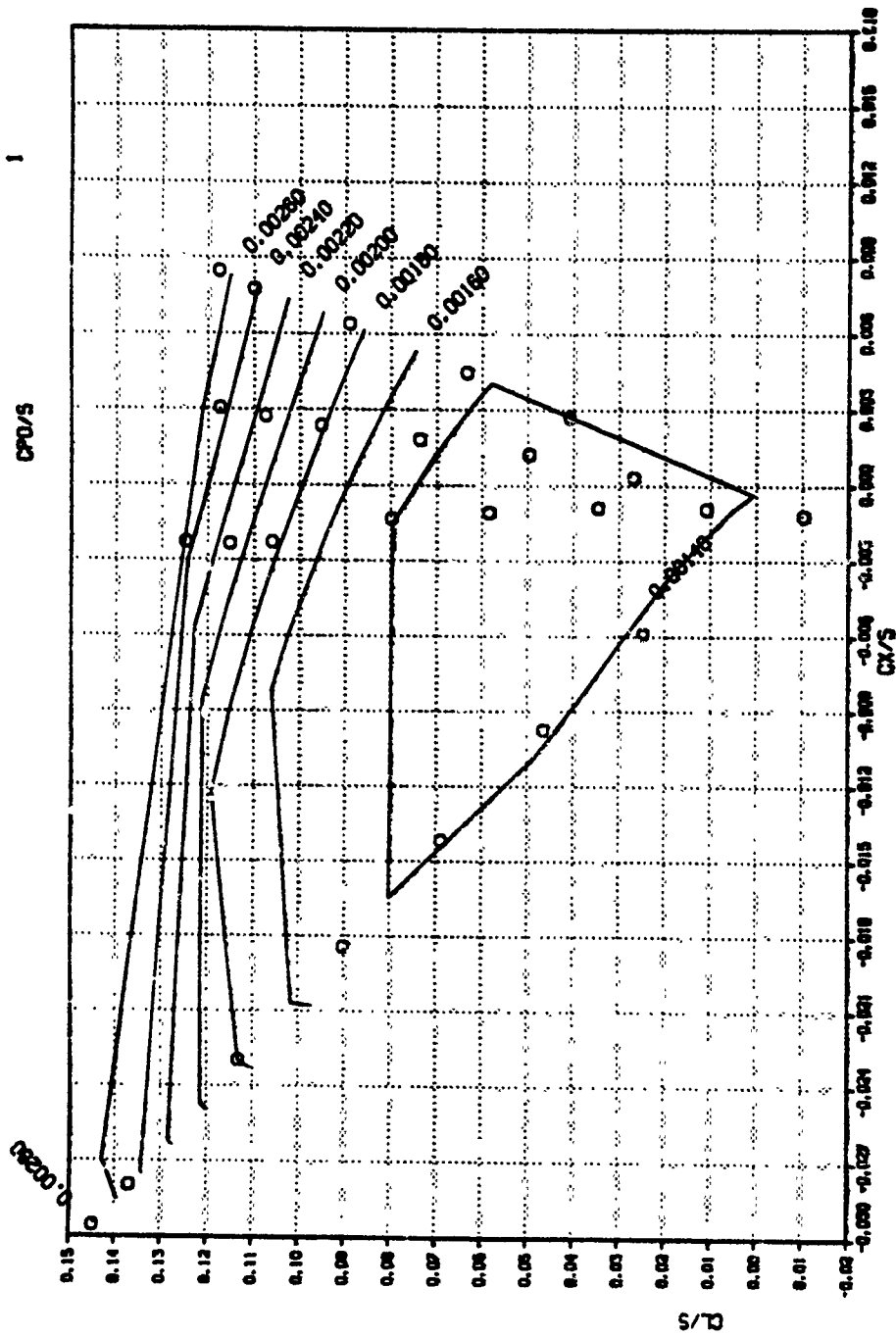


$$E_v = 3.152 \times 10^4$$


04/23/80
23 29 43

RECTANGULAR TIP, V/OR = .200, WRT = .720
NONIDEAL POWER COEFFICIENT CPD/S

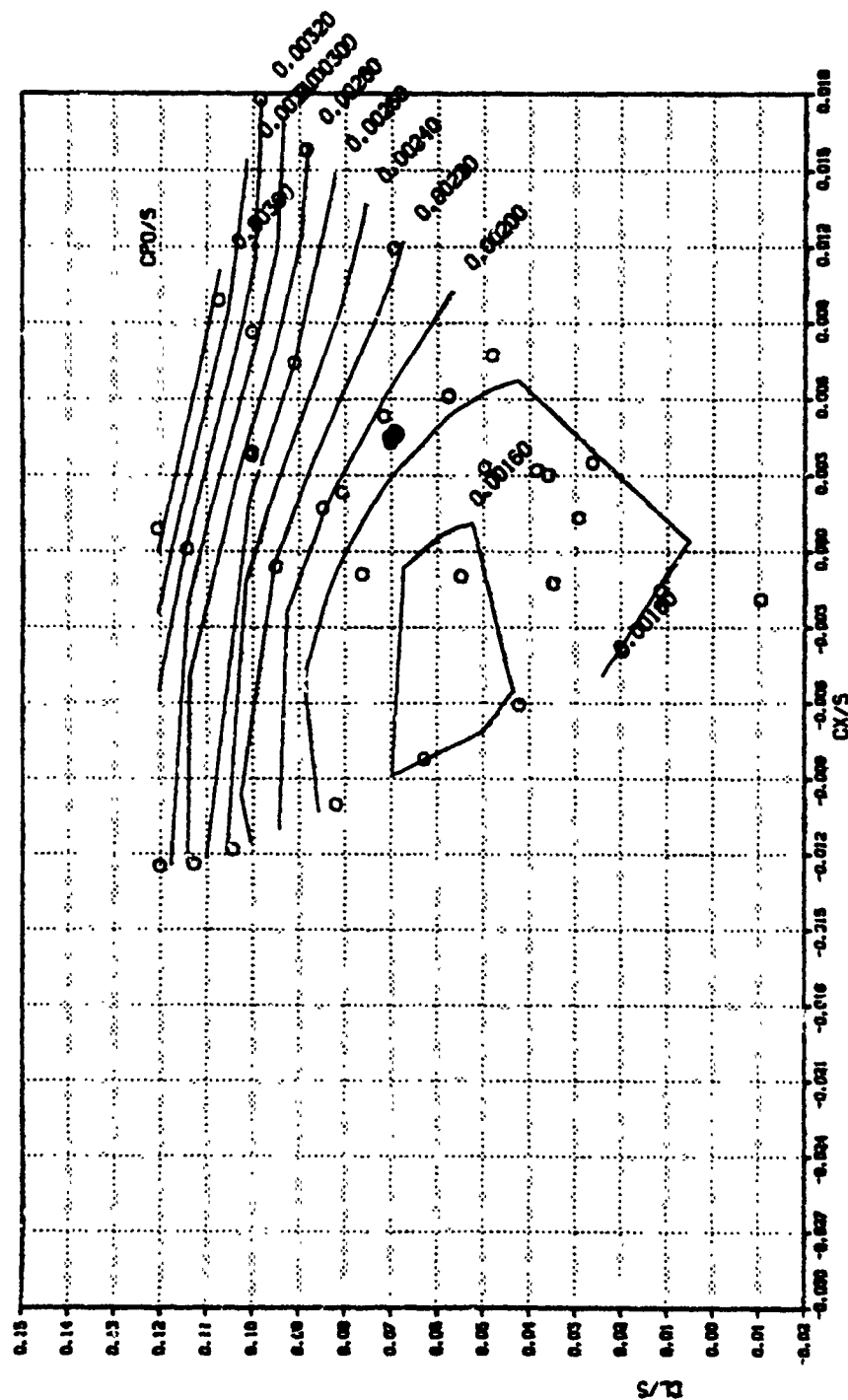
$C_v = 7.943 \times 10^{-4}$



04/23/80
23 34 37
2

RECTANGULAR TIP, V/OR - .300, MPT - .780
NONIDENL POWER COEFFICIENT CPO/S

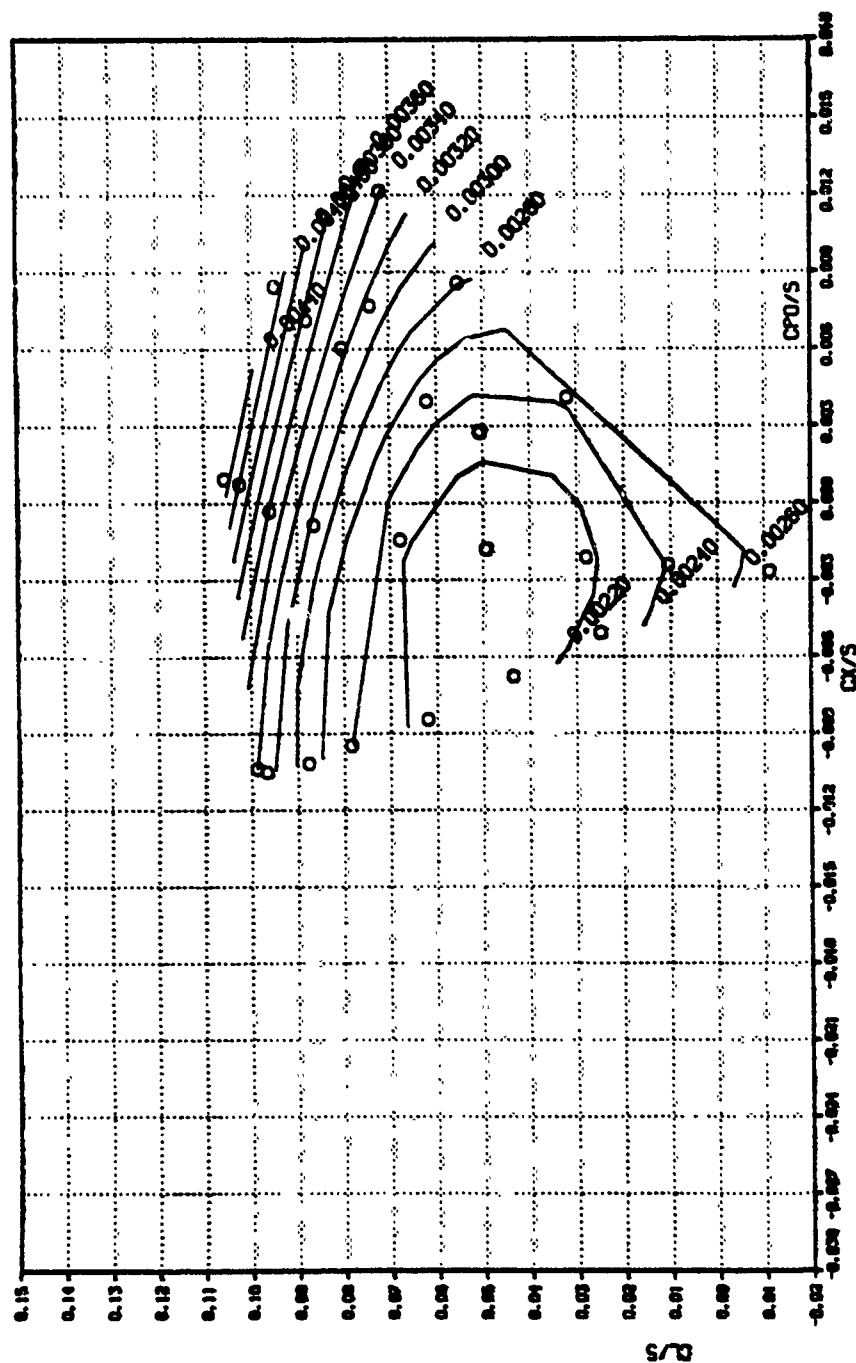
$C_v = 1.576 \times 10^{-4}$



04/23/80
23 42 24
3

RECTANGULAR TIP, V/OR = .375, WRT = .825
NONIDEAL POWER COEFFICIENT CP0/S

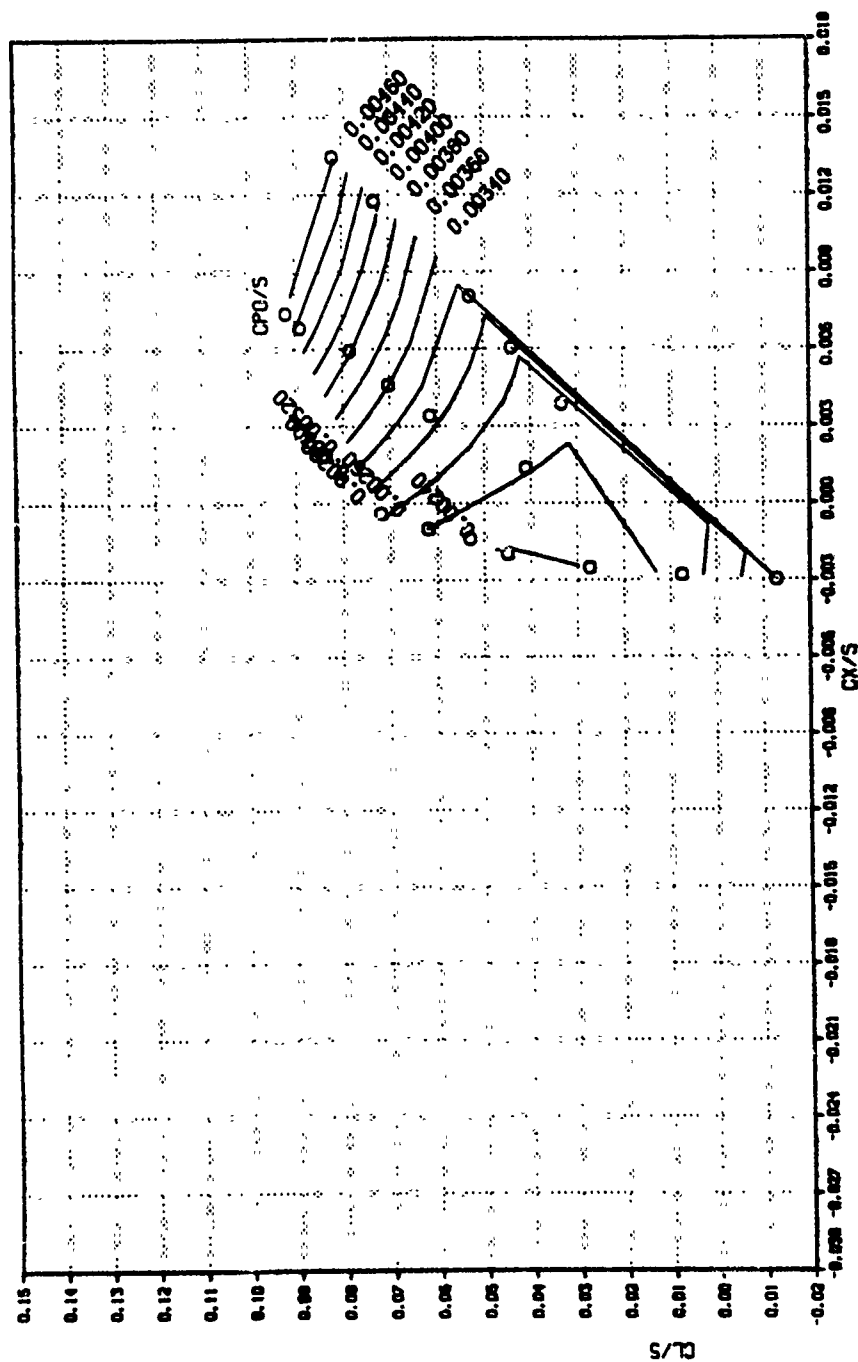
Ev - 1.682x10³



04/25/80
20 48 18
4

RECTANGULAR TIP, V/OR - .375, MAT - .895
NONIDEAL POWER COEFFICIENT CP0/S

$C_v = 1.622 \times 10^{-4}$

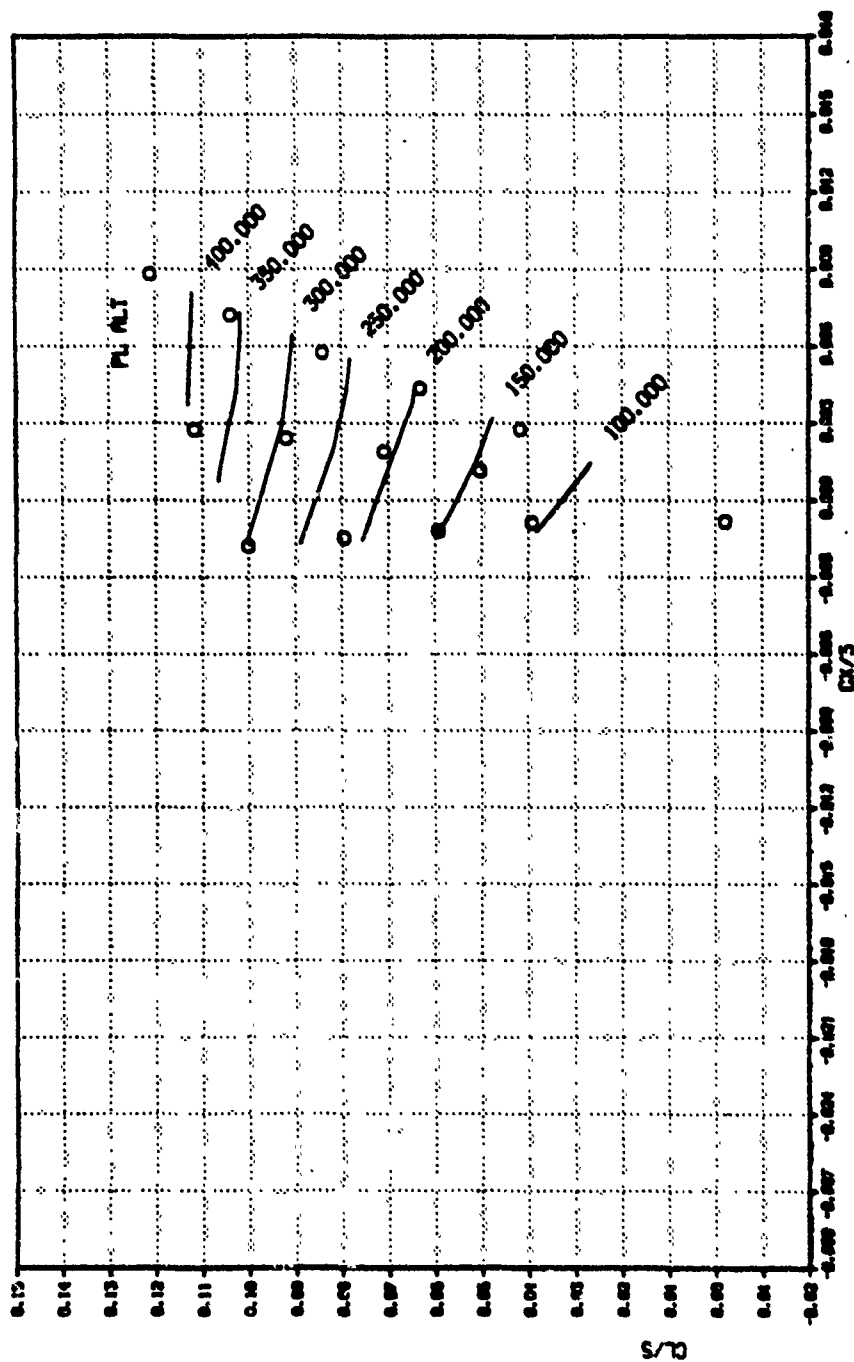


-D53-

05/02/80
20 57 02
2

SHOFT/INFORMED TIP, V/OR - .200, MIT - .660
OSCILLATING PITCH LINK LONG

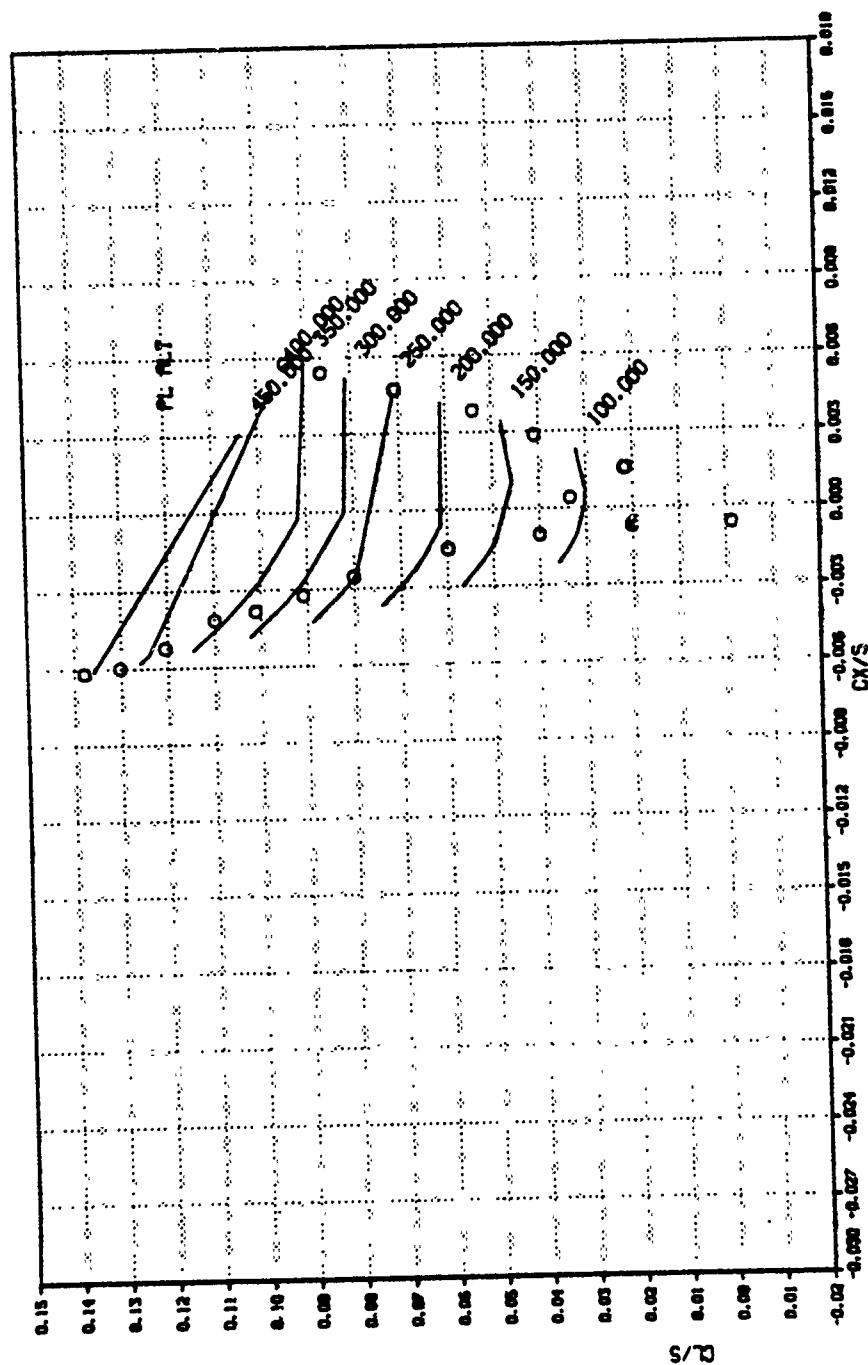
CV - 4.300-10°



05/02/80
20 53 43
1

SWEEP/TAPERED TIP, V/D = .150, WRT = .685
OSCILLATING PITCH LINK LONG

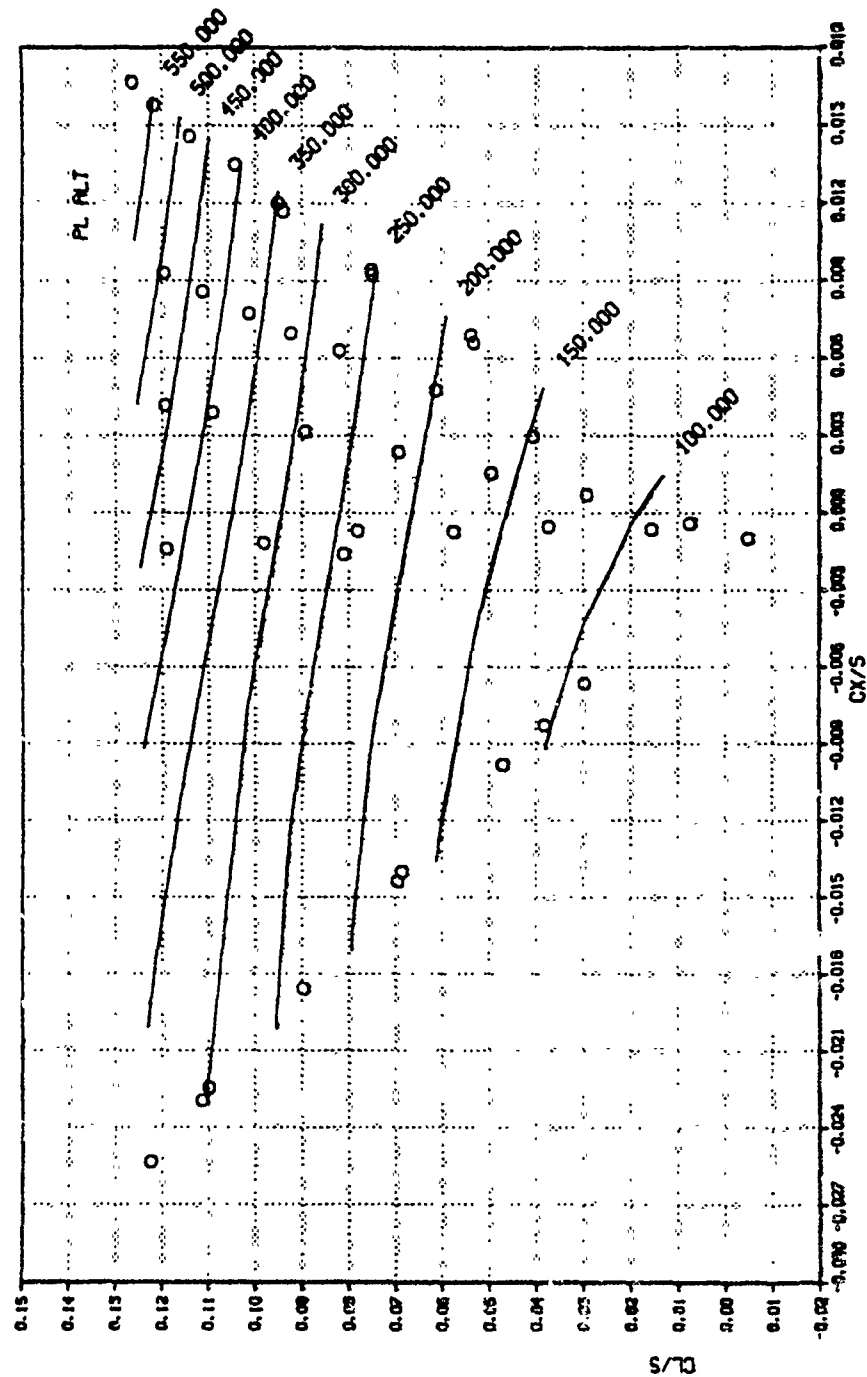
$C_v = 3.857 \times 10^6$



05/07/80
01 55 17
3

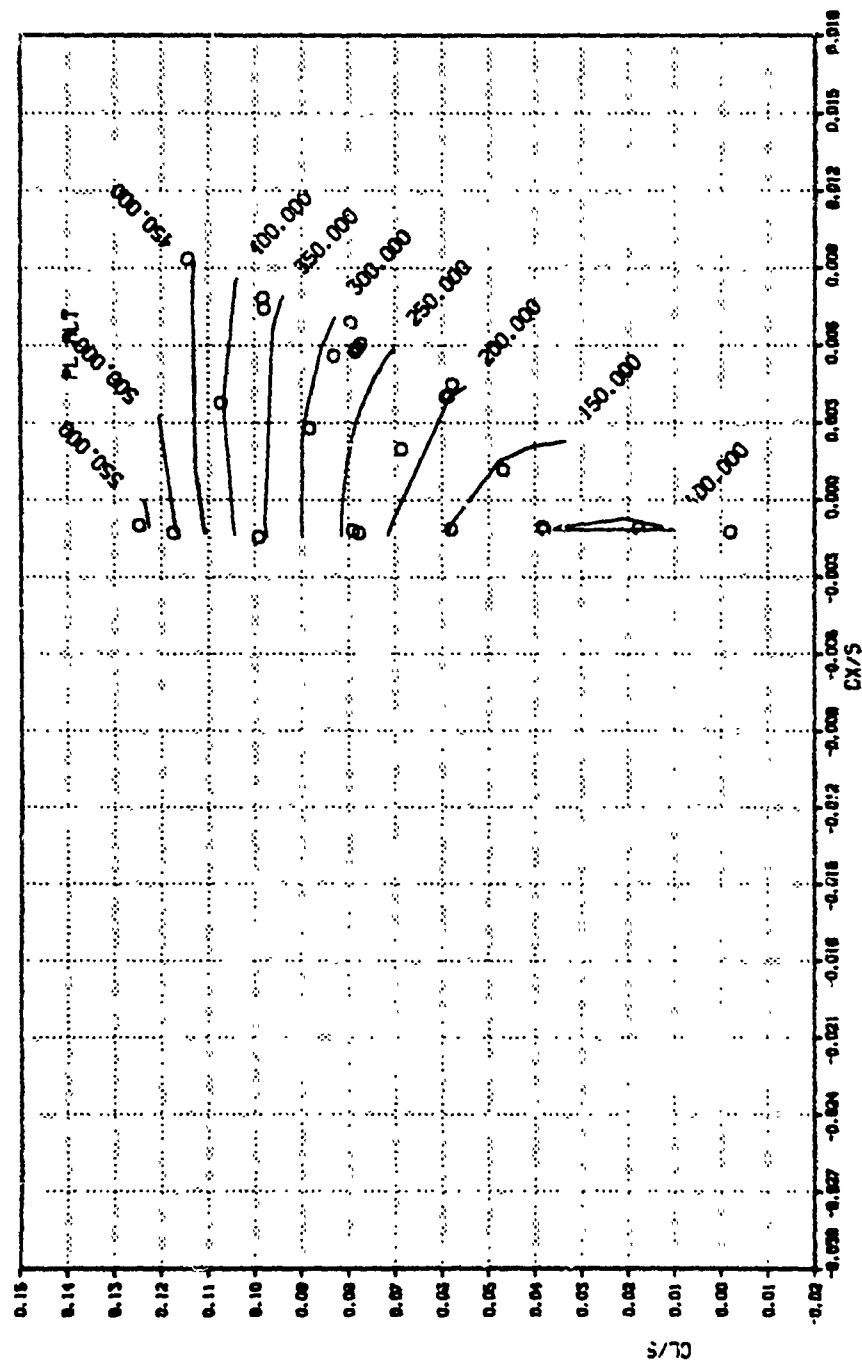
SHEPT/TAPERED TIP, V/OR - .20U, WRT - .720
OSCILLATING PITCH LINK LORD

$E_v = 3.531 \times 10^9$



05/02/80
21 03 34
4

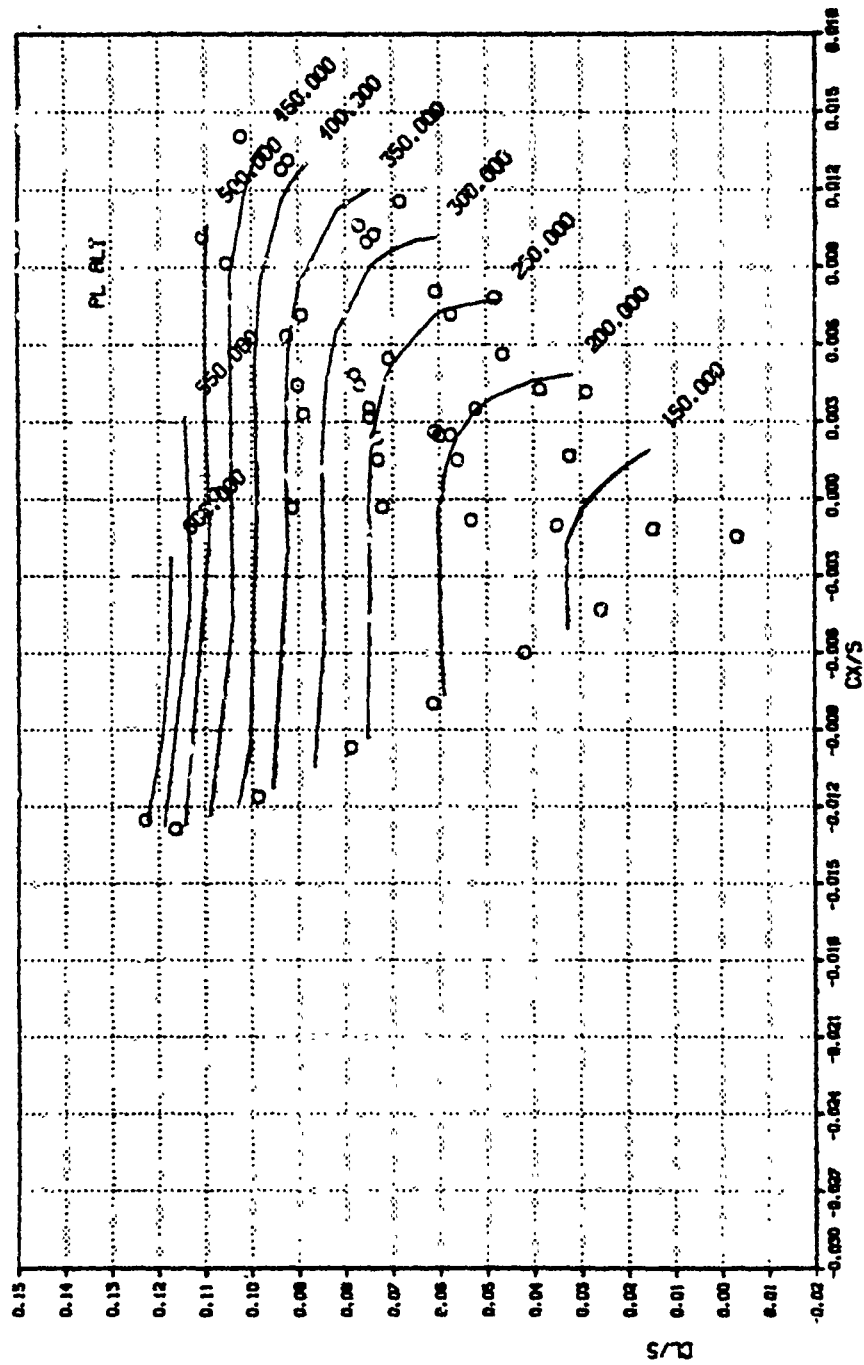
EV - 4.826x10⁸
SHEPT/TAPERED TIP, V/DK = .250, MAT = .750
OSCILLATING PITCH LINK LORD



05/07/90
02 00 23
7

SHEET/TAPERED TIP, V/D = .300, MAT = .780
OSCILLATING PITCH LINK LOAD

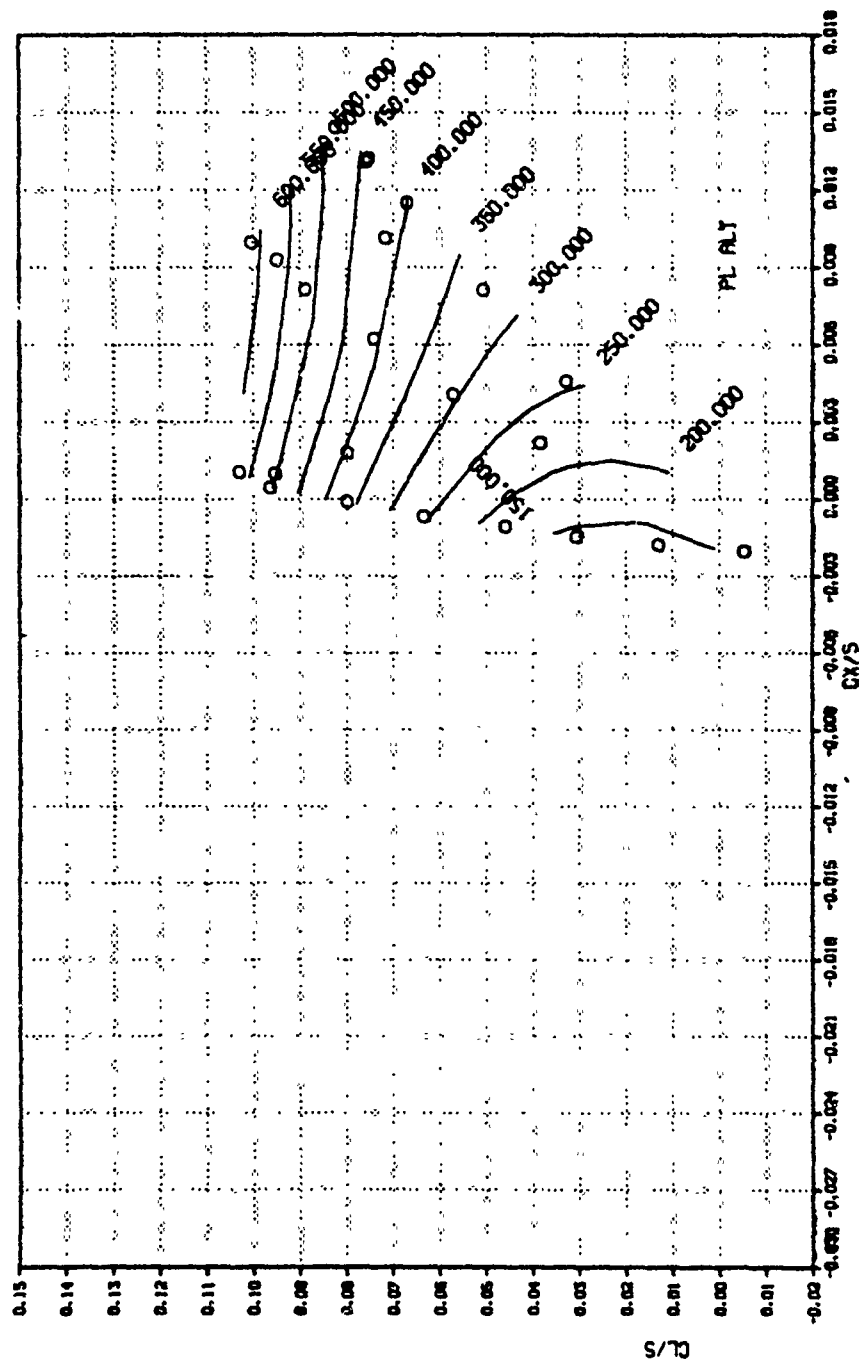
$E_v = 6.169 \times 10^6$



05/02/80
21 17 08
8

SWEPT/TAPERED TIP, V/D = .375, MAT = .825
OSCILLATING PITCH LINK LOAD

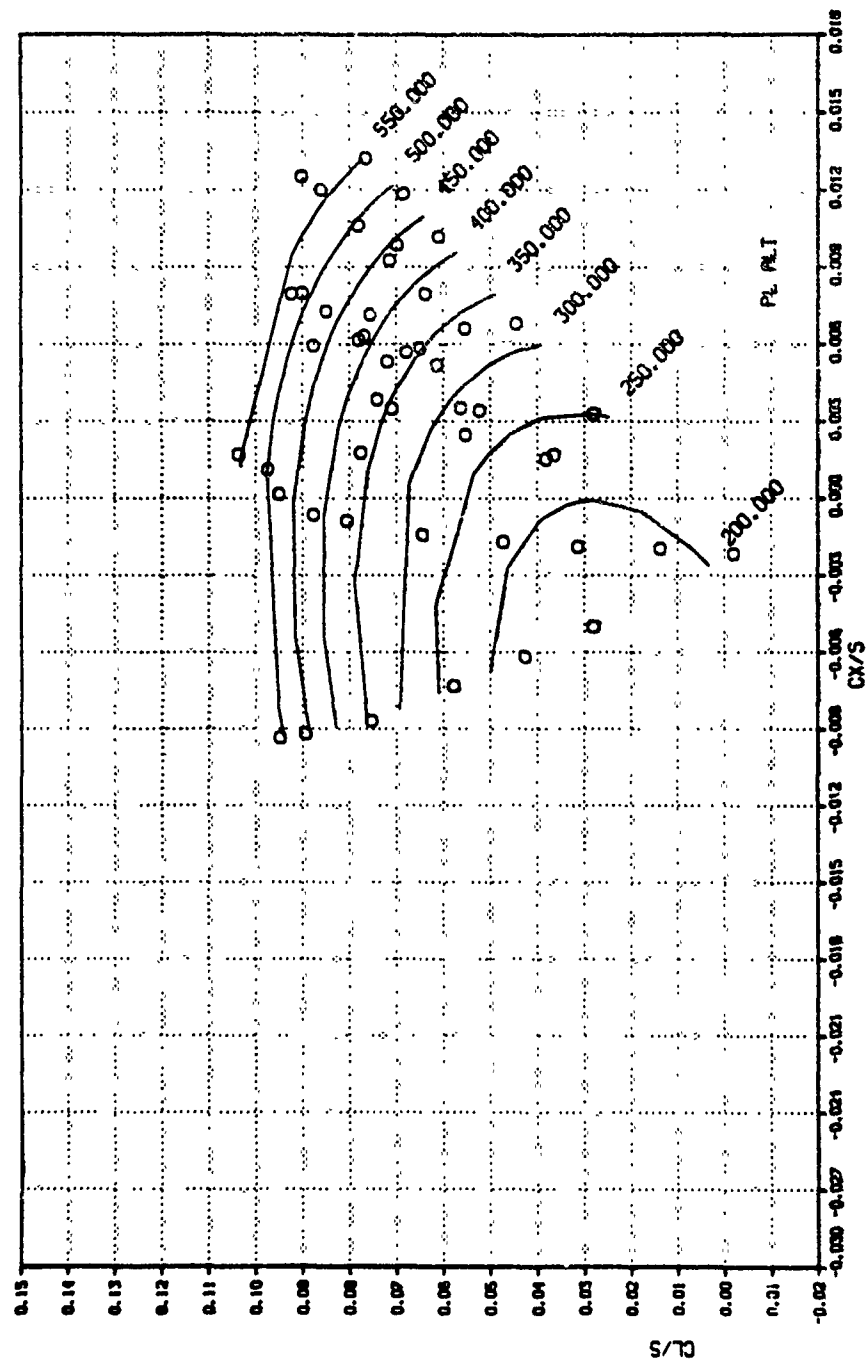
$C_v = 7.783 \times 10^6$



05/02/80
21 30 04
12

SKIPT/TAPERED TIP, V/DK - .400, MPT - .840
OSCILLATING PITCH LINK LOAD

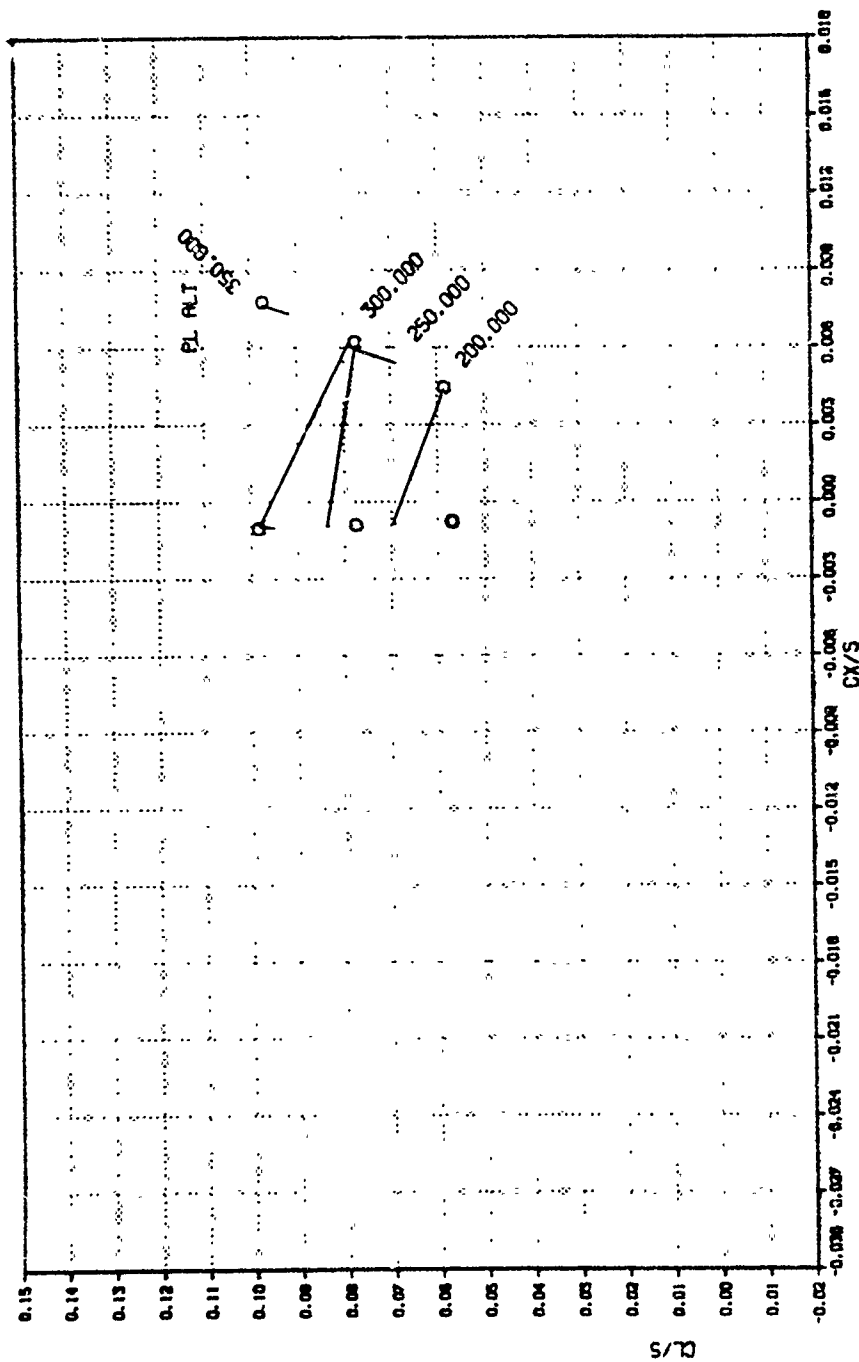
Cv - 5.771x10⁶



05/02/80
21 06 32
5

SHEPT/TAPERED I/P, V/OR - .250, MAT - .315
OSCILLATING PITCH LINK LOAD

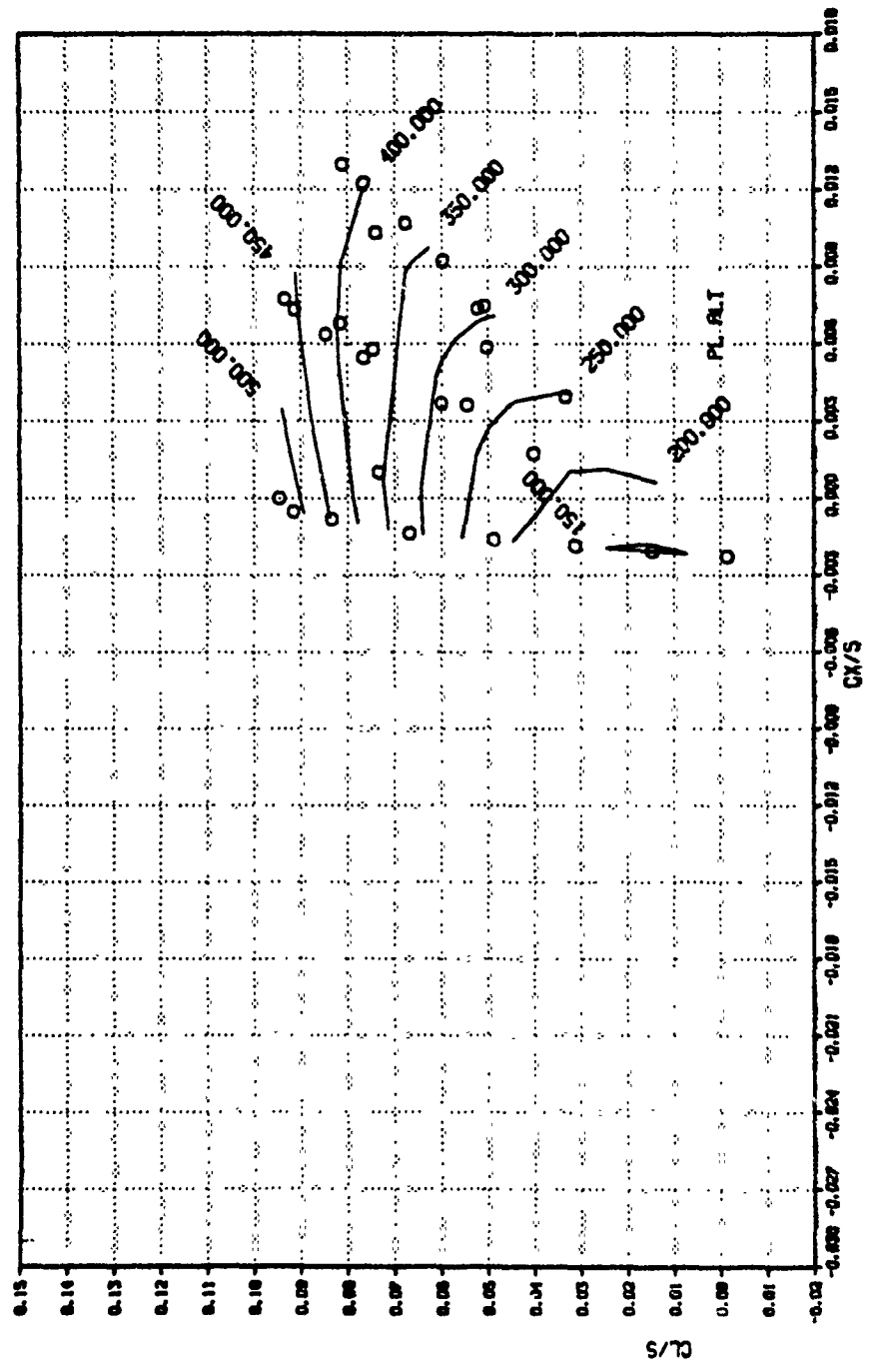
C1 - 2.547x10¹¹



05/02/80
21 20 21
9

SHOFT/TAPERED TIP, V/D = .375, MAT = .885
OSCILLATING PITCH LINK LOAD

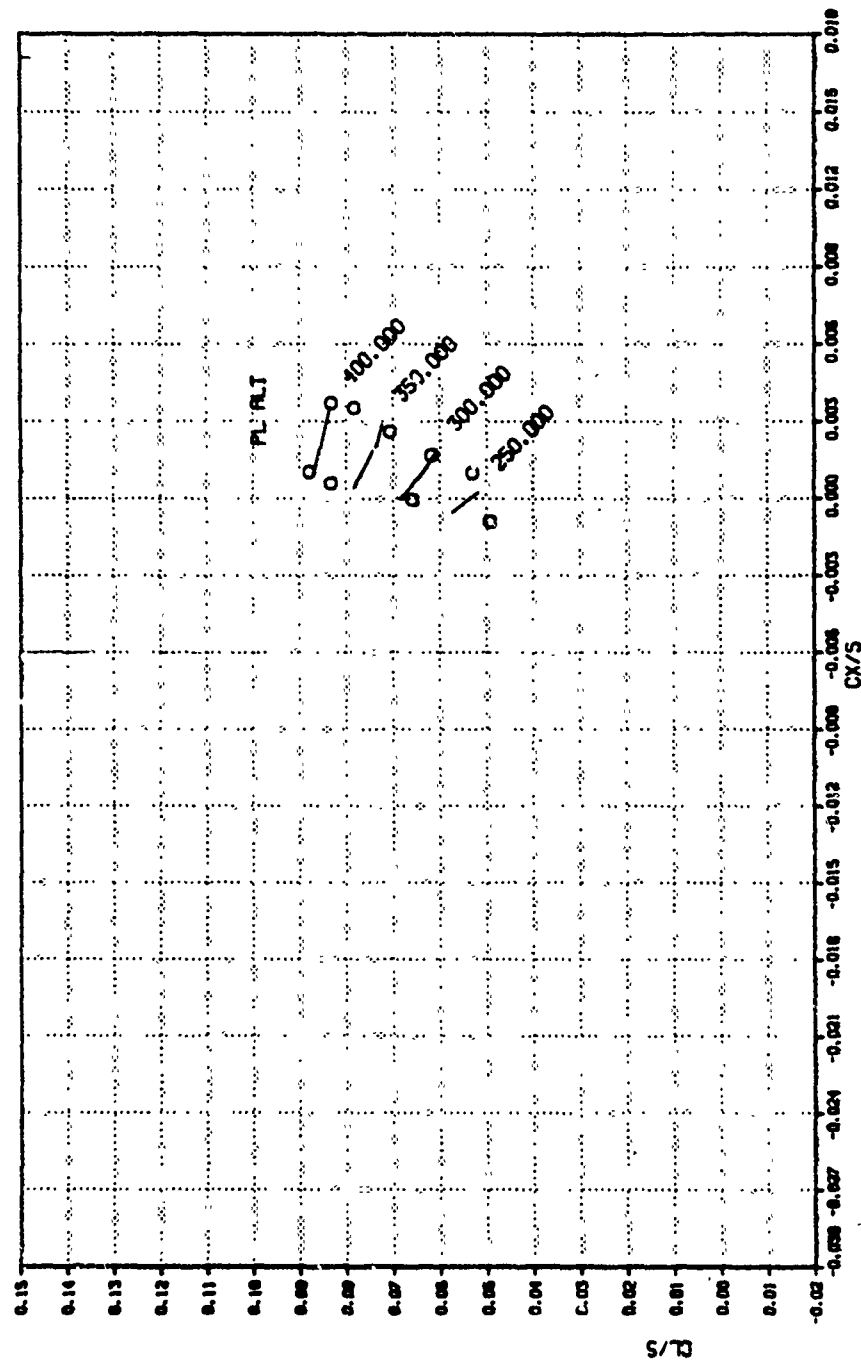
CV = 1.069E10



05/02/80
21 23 16
10

SNPT/TAPERED TIP, V/OR - .375, MAT - .965
OSCILLATING PITCH LINK LOAD

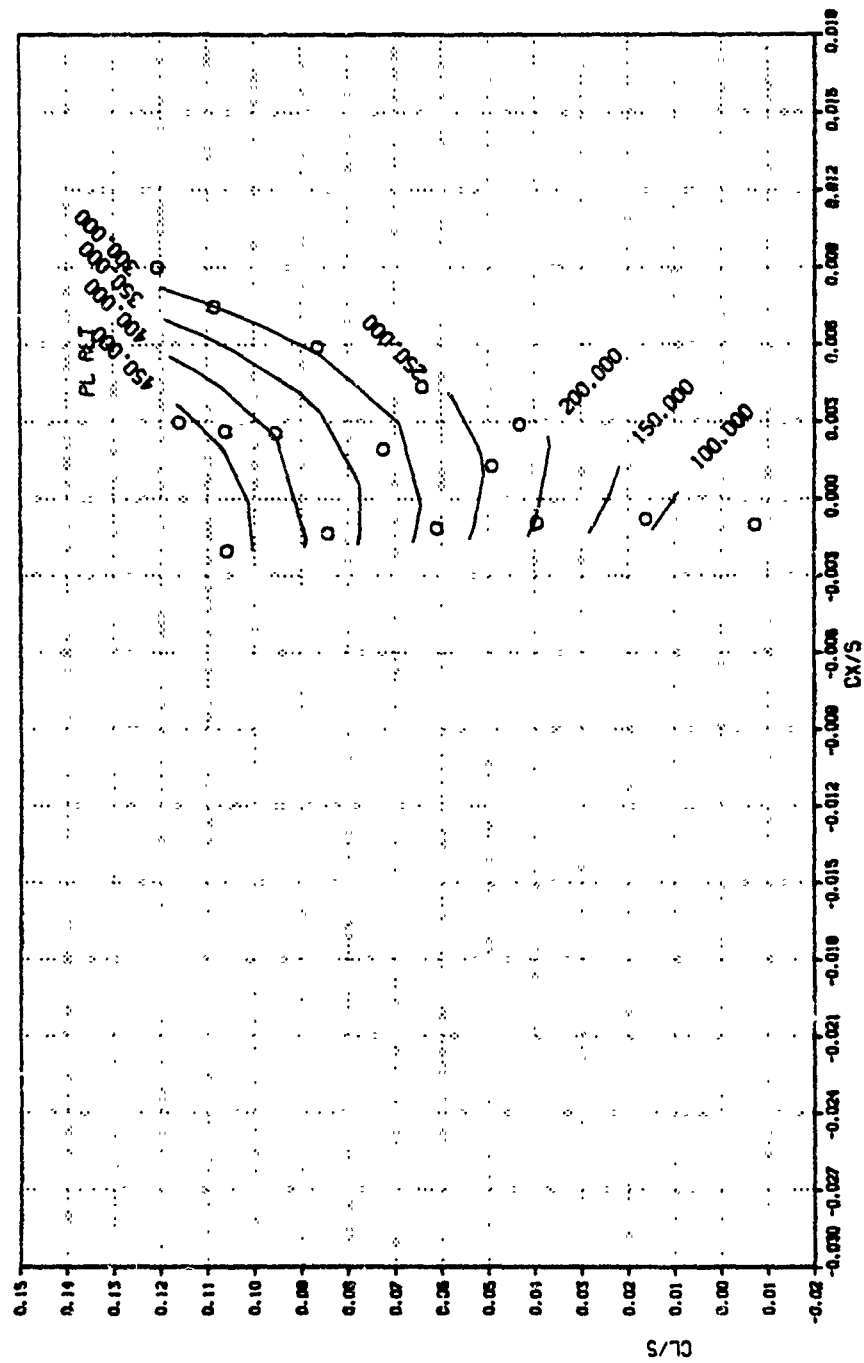
EV - 1.068×10^6



05/02/80
21 49 10
1

SHEPT TIP, V/OR - .200, HRT - .720
OSCILLATING PITCH LINK LOAD

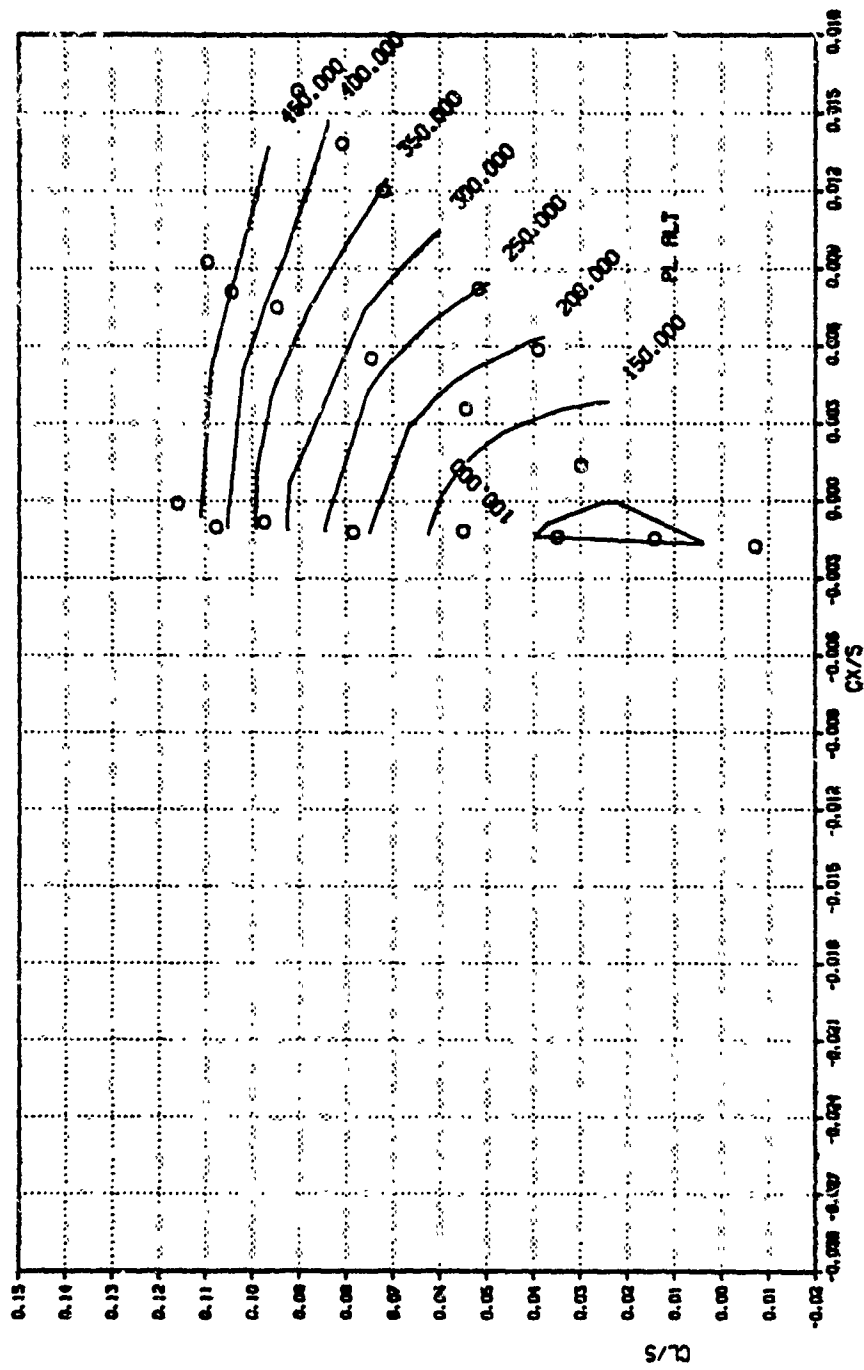
EV - 2.021x10⁴



05/07/80
01 31 04
2

SWIPT TIP, V/DK - .300, MAT - .780
OSCILLATING PITCH LINK LOAD

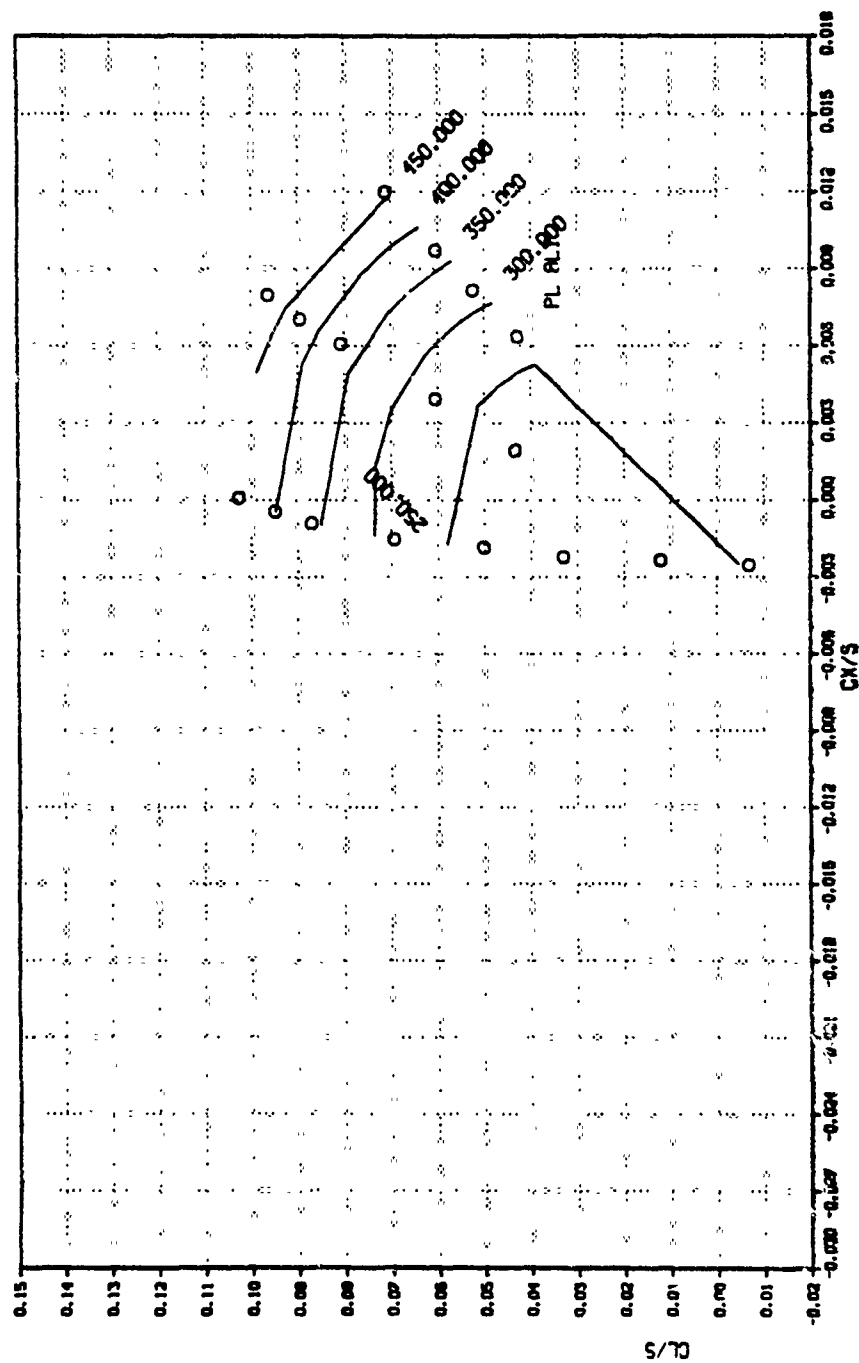
$\bar{C}_v = 3.126 \times 10^6$



05/02/80
21 57 44
3

SWEPT TIP, V/OR = .575, MAT = .825
OSCILLATING PITCH LINK LOAD

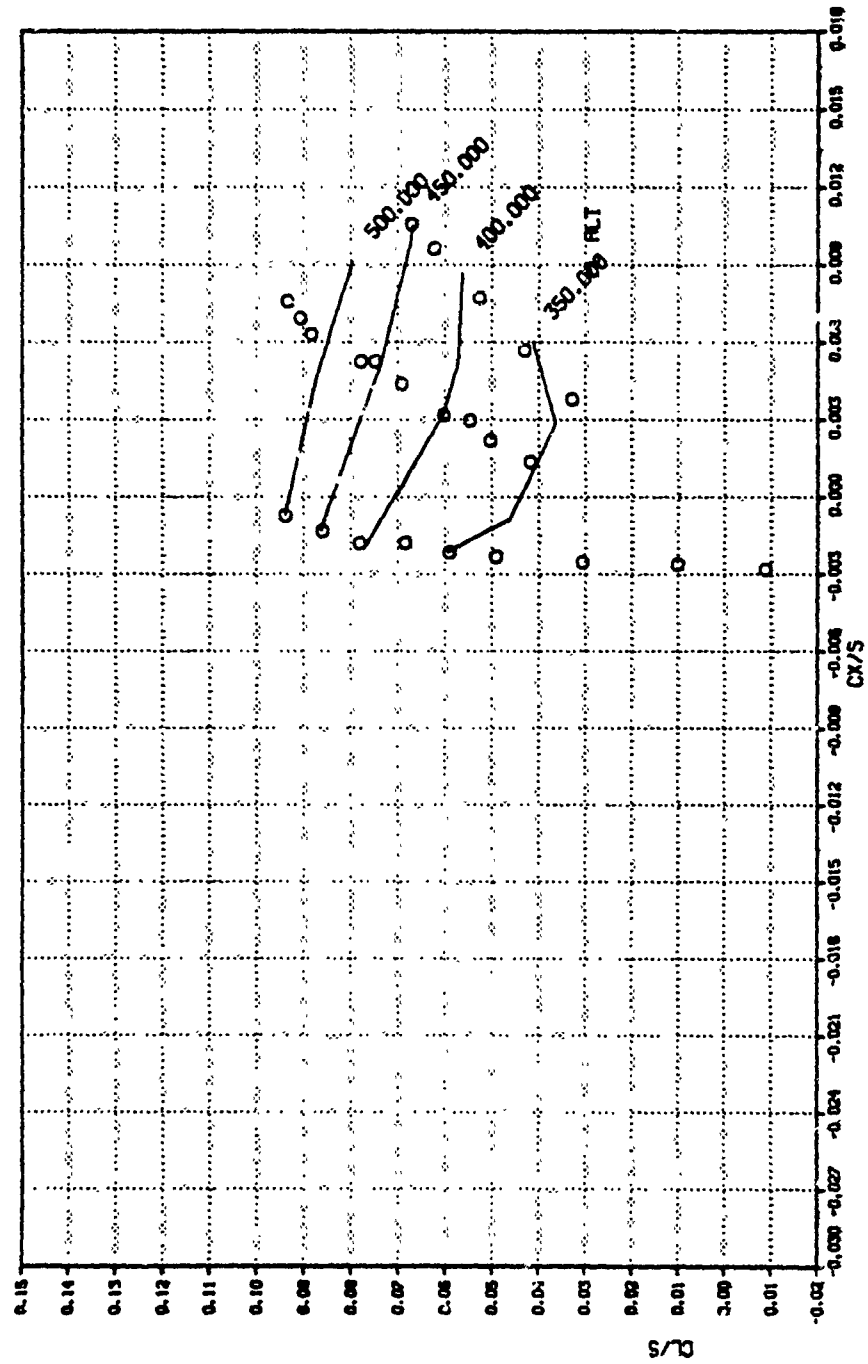
$\epsilon_v = 6.925 \times 10^{-3}$



05/07/80
01 33 31
4

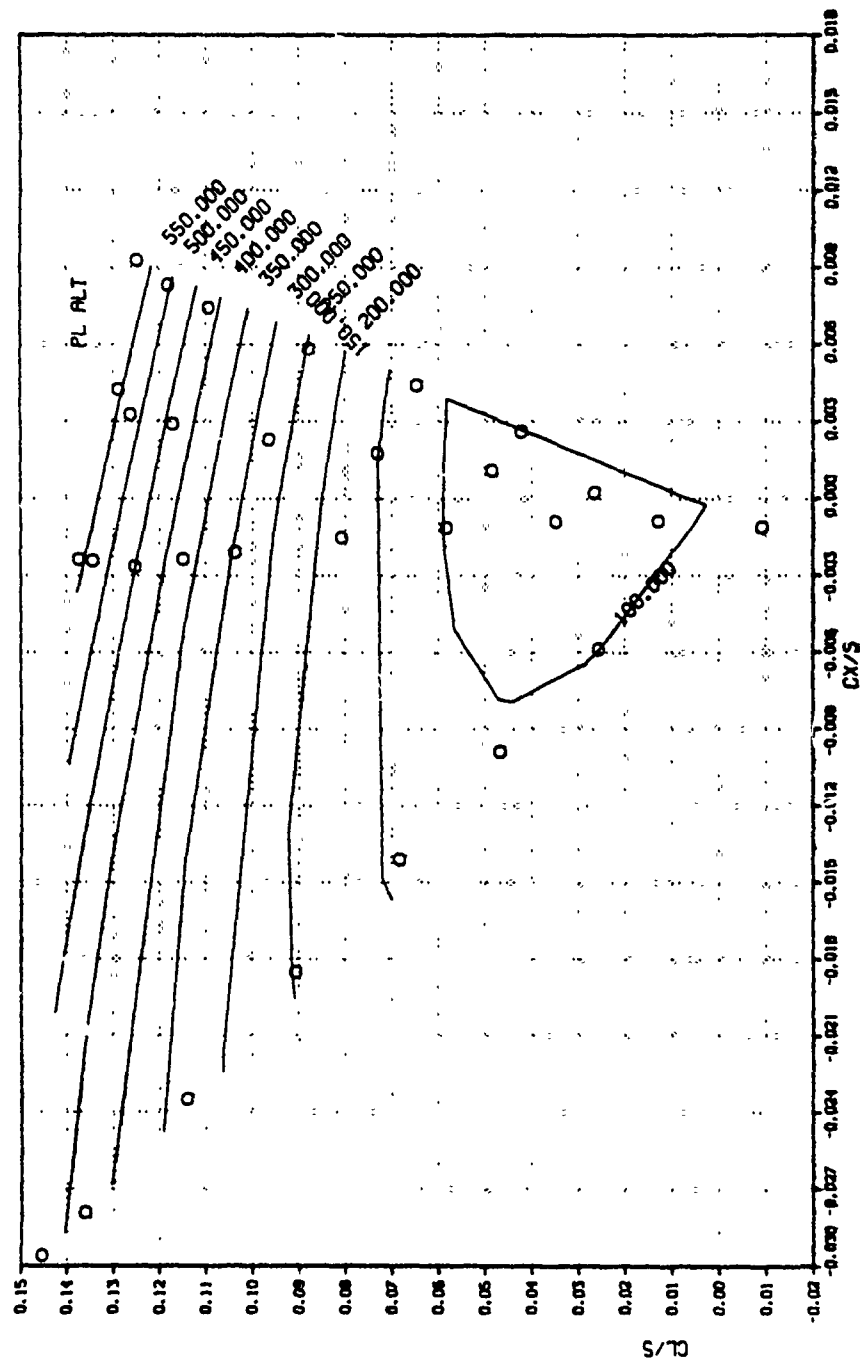
SHEET TIP, V/OR = .375, MAT = .895
OSCILLATING PITCH LINK LOAD

$E_v = 1.781 \times 10^8$



05/02/80
22 17 20
1

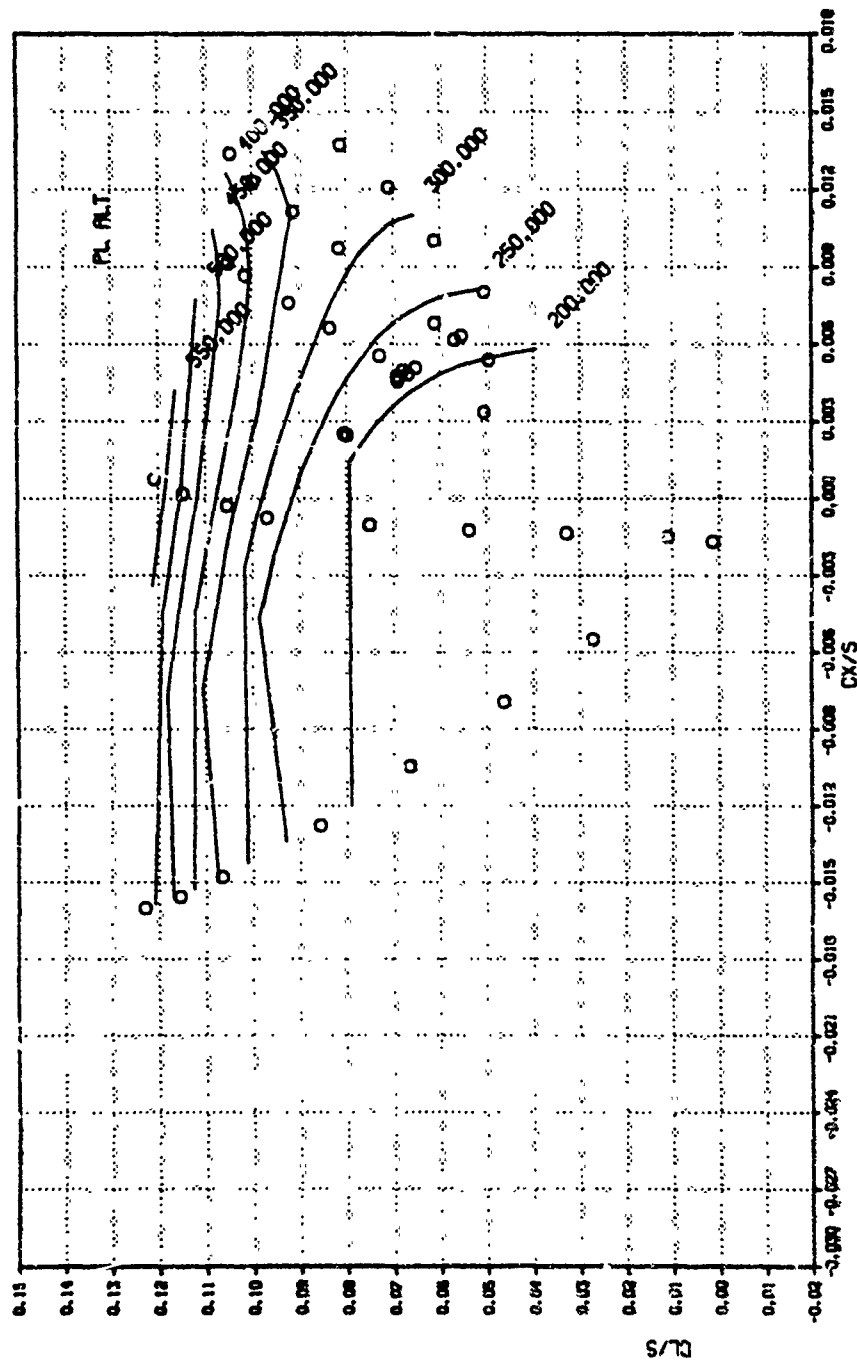
EV - 7.396 \pm 10°
TAPERED TIP, V/OR - .200, MAT - .220
OSCILLATING PITCH LINK LORD



05/07/60
01 42 39
2

TAPERED TIP, V/OR = .300, HRT = .780
OSCILLATING PITCH LINK LOGO

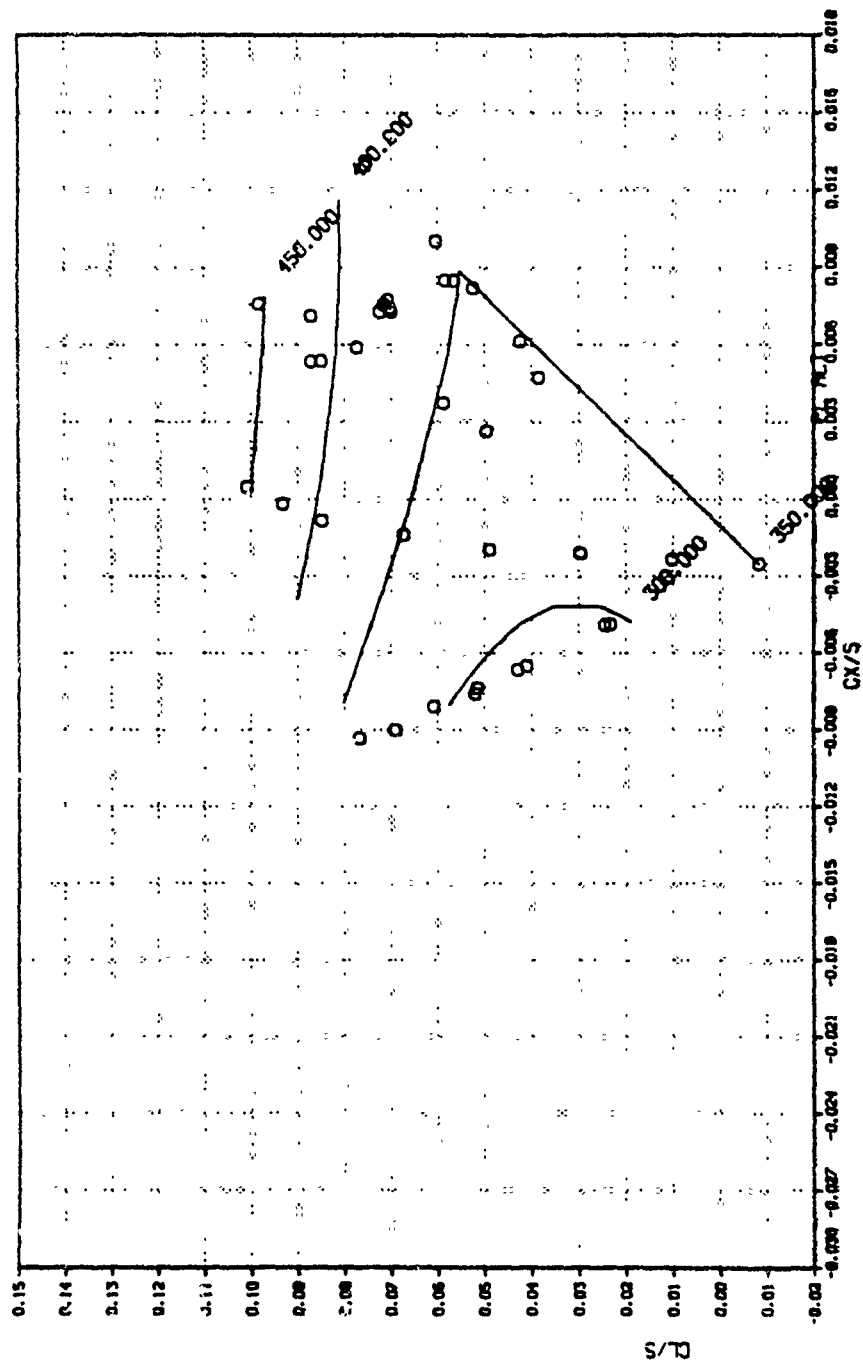
$C_v = 6.538 \times 10^3$



05/02/80
22 25 48
3

TAPERED TIP, V/OR = .375, MAT = .625
OSCILLATING PITCH LINK LOAD

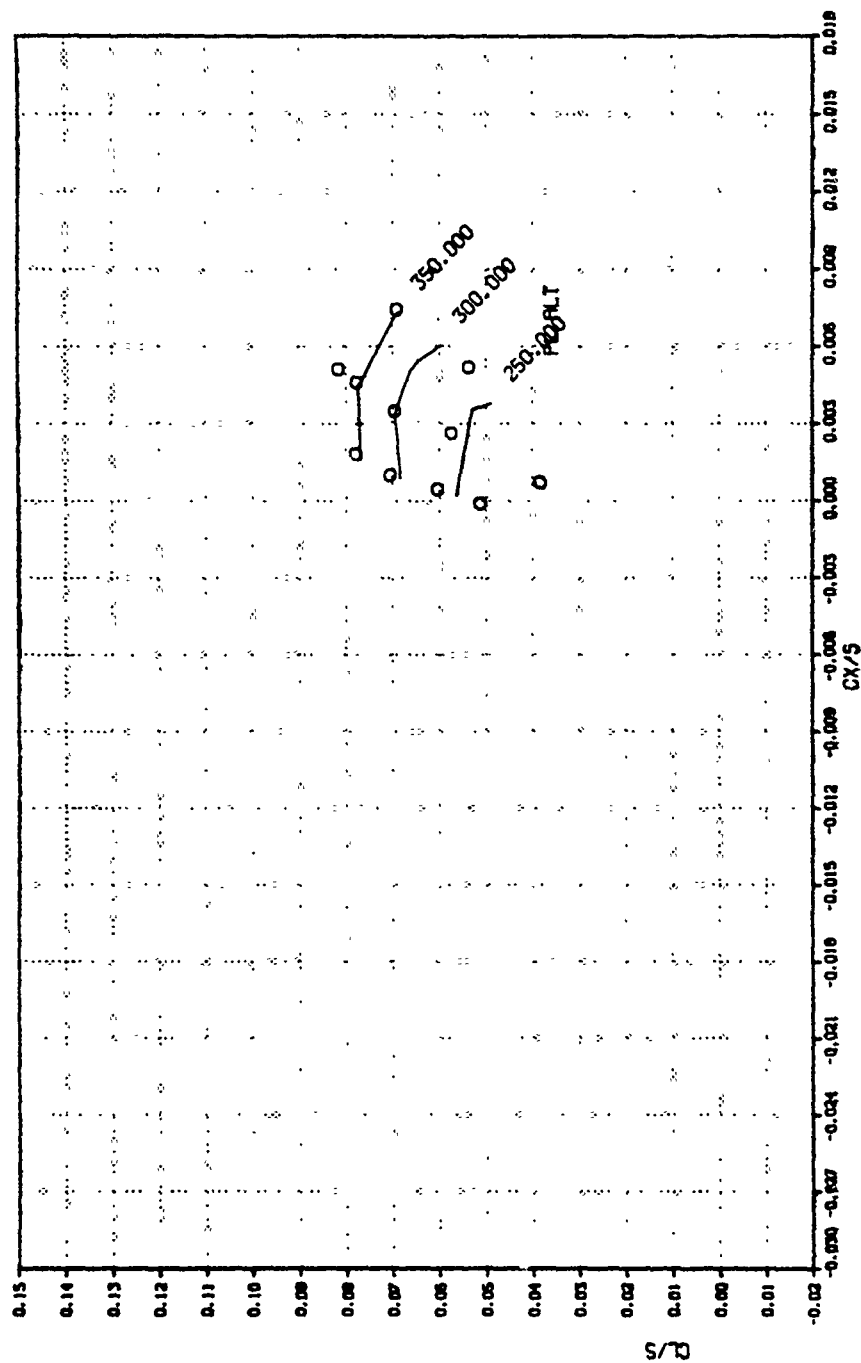
EV - 6.376E10



05/02/80
22 28 36
4

TAPERED TIP, V/OR = .375, MAT = .940
OSCILLATING PITCH LINK LORD

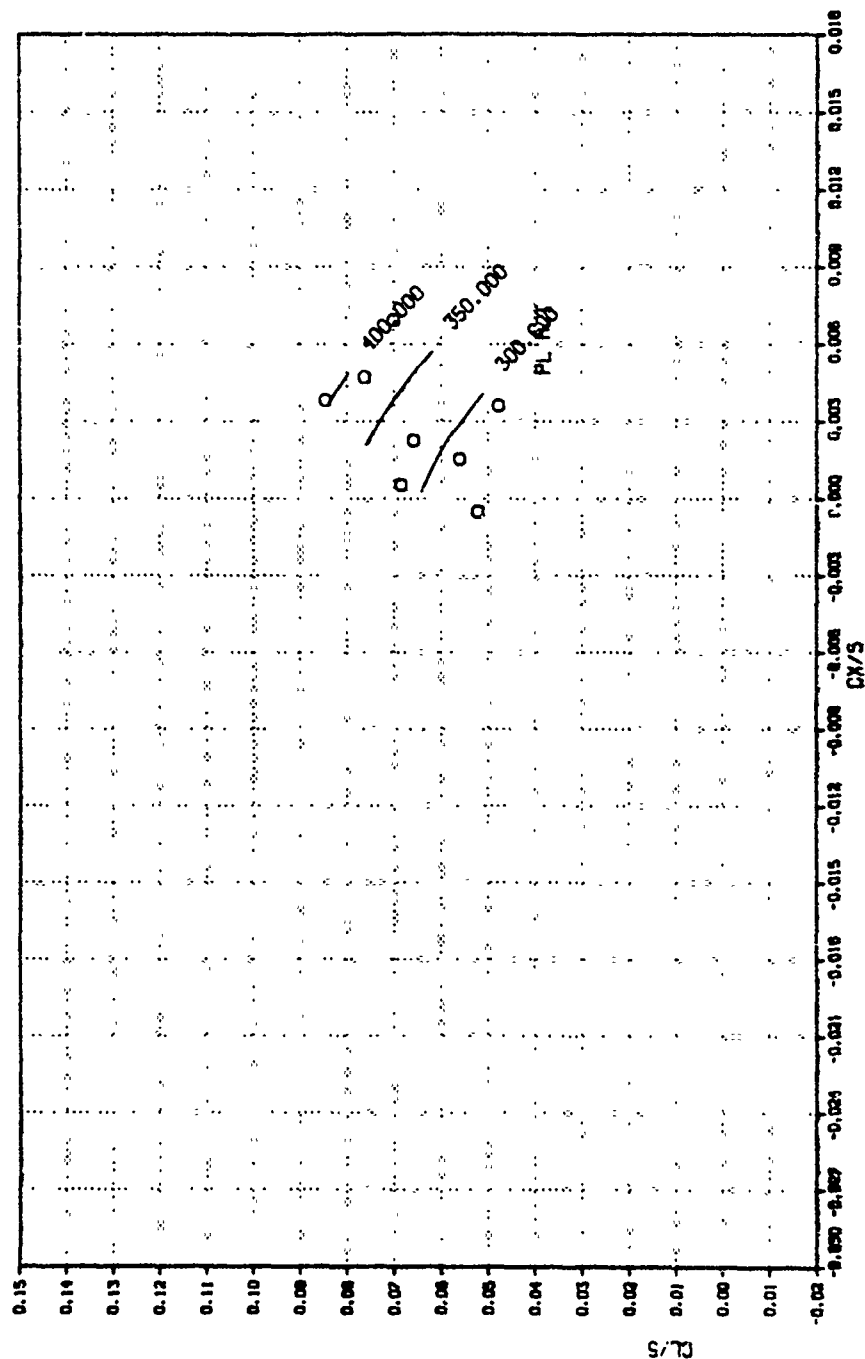
$E_v = 2.673 \times 10^9$



05/02/80
22 31 02
5

TAPERED TIP, V/OR - .375, MAT - .965
OSCILLATING PITCH LINK LOPO

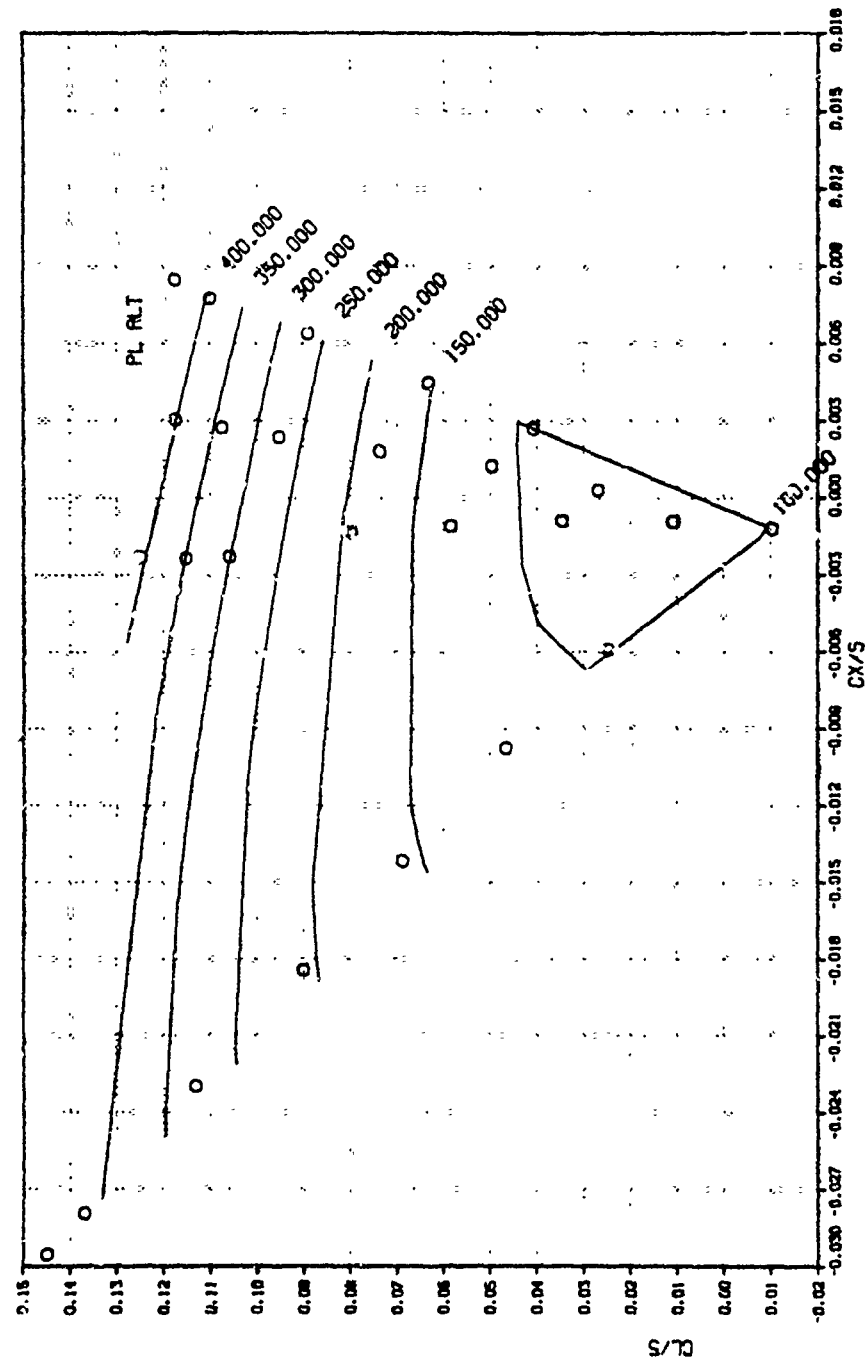
CV - 2.509×10^8



05/02/80
04 19 45
1

RECTANGULAR TIP, $V/DK = .200$, $MAT = .720$
OSCILLATING PITCH LINK LOAD

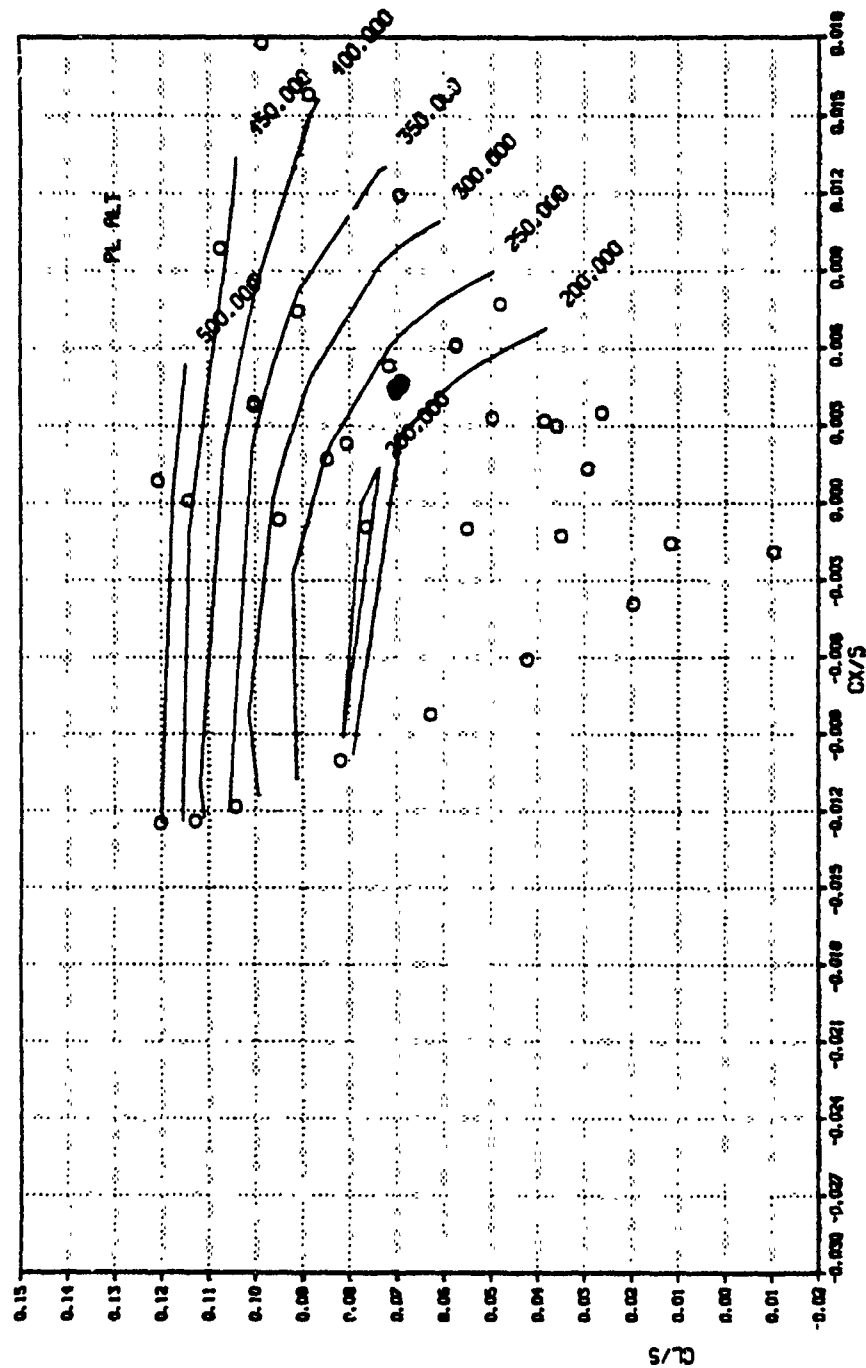
$Ev = 2.670 \times 10^6$



05/07/80
00 48 23
2

RECTANGULAR TIP, V/OR - .300, MAT - .760
OSCILLATING PITCH LINK LOAD

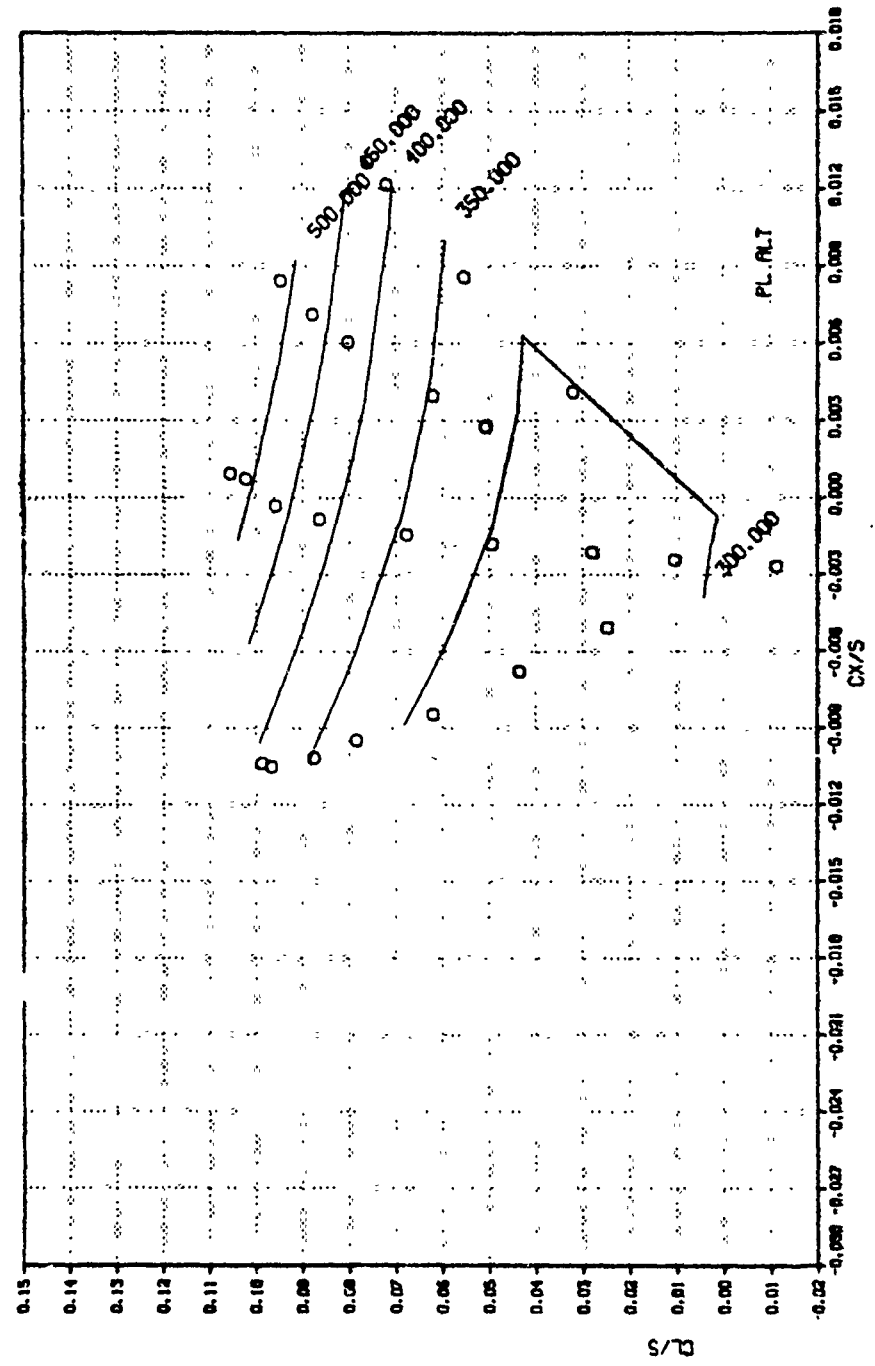
Ev - 3.000e+10



05/02/80
04 24 32
3

RECTANGULAR TIP, V/DK = .375, MAT = .825
OSCILLATING PITCH LINK LOPO

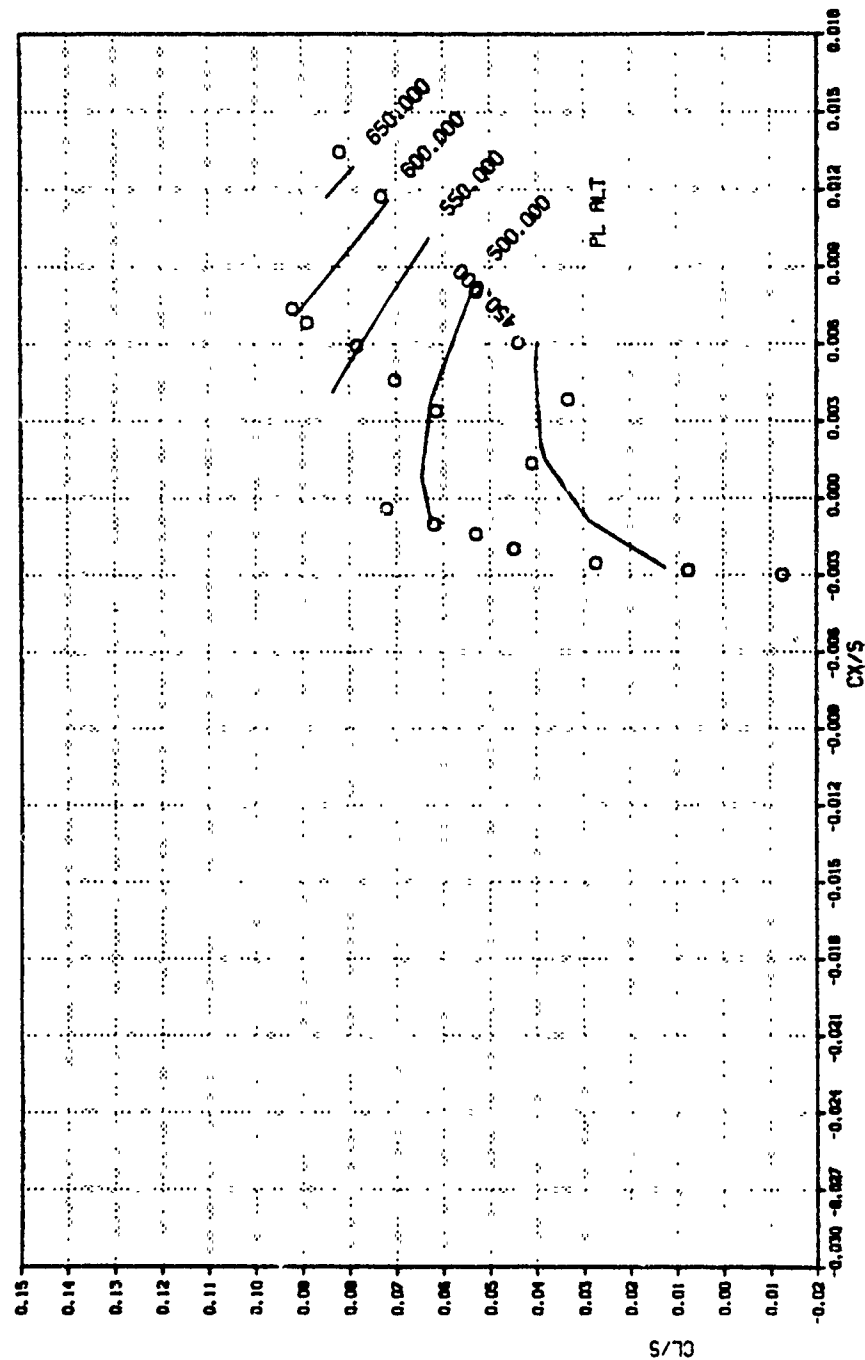
EV - 6.455x10⁸



05/02/80
04 26 38
4

RECTANGULAR TIP, V/D = .375, MAT = .895
OSCILLATING PITCH LINK LOBO

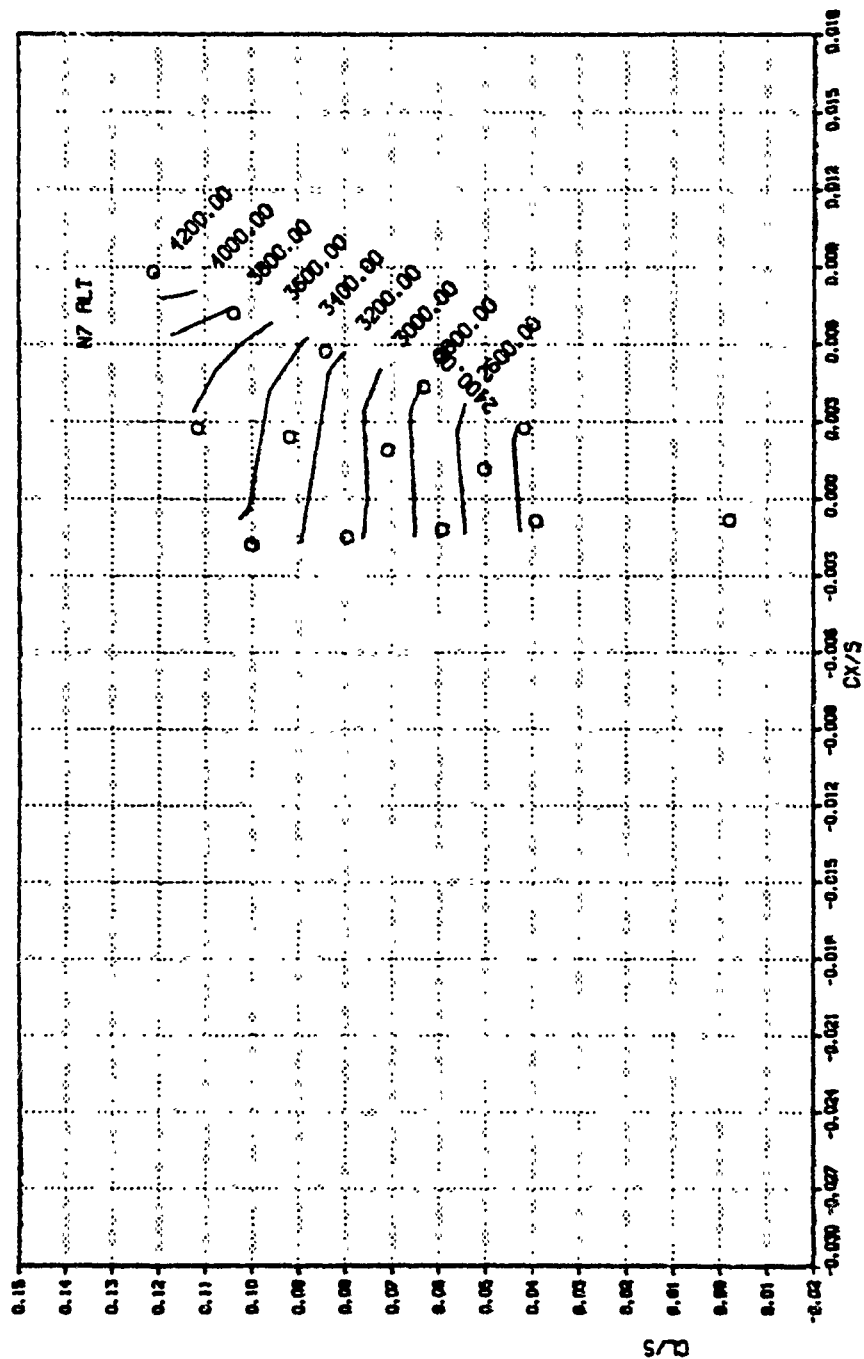
EV - 1.279E10



05/09/80
03 33 15
2

SWEPT/TAPERED TIP, V/CR = .200, WRT = .660
OSCILLATING NORMAL BENDING LONG (7R)

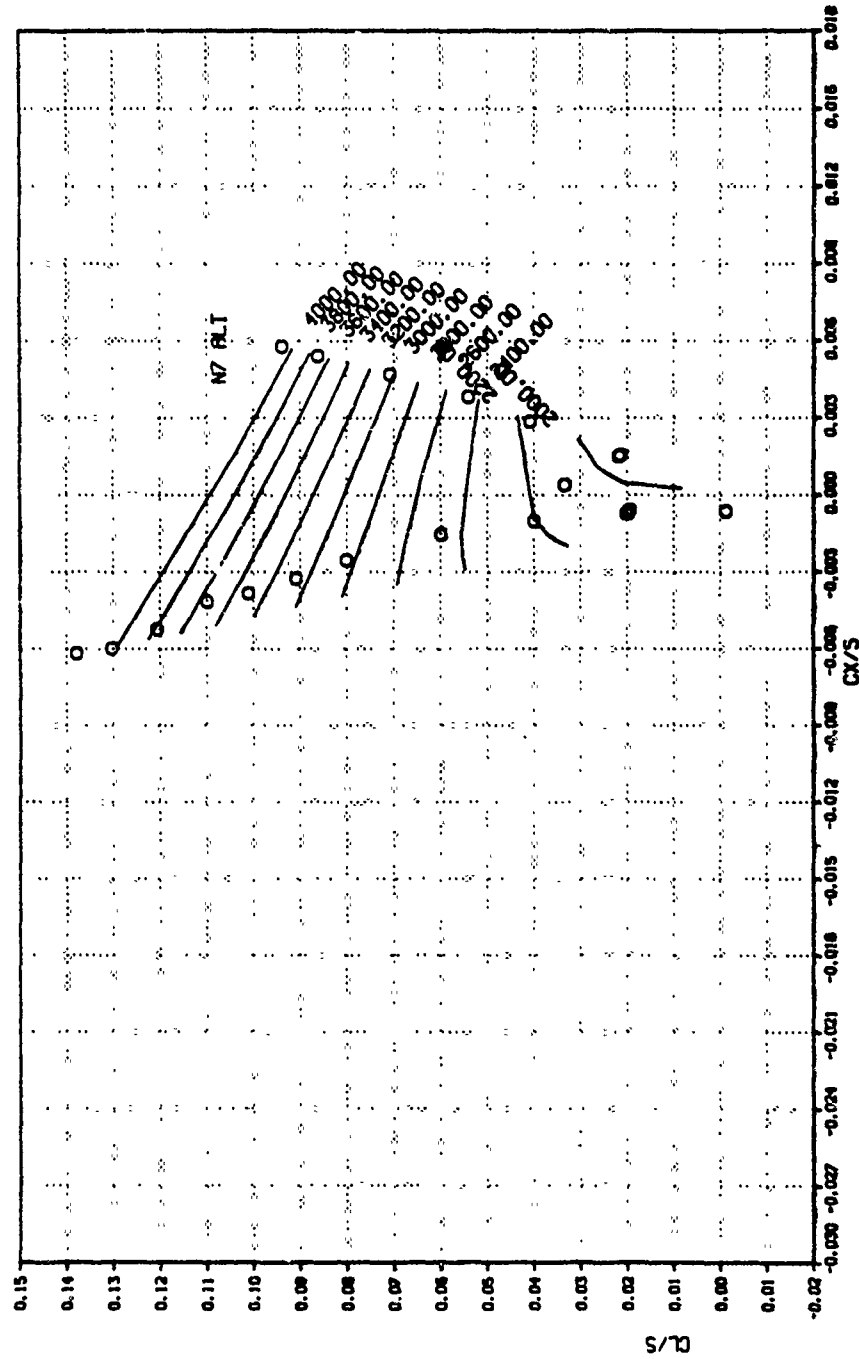
$E_v = 1.332 \times 10^4$



05/09/80
22 08 26
1

SEPT/TAPERED TIP, V/OR - .150, MAT - .685
OSCILLATING NORMAL BOWING LOAD (.7R)

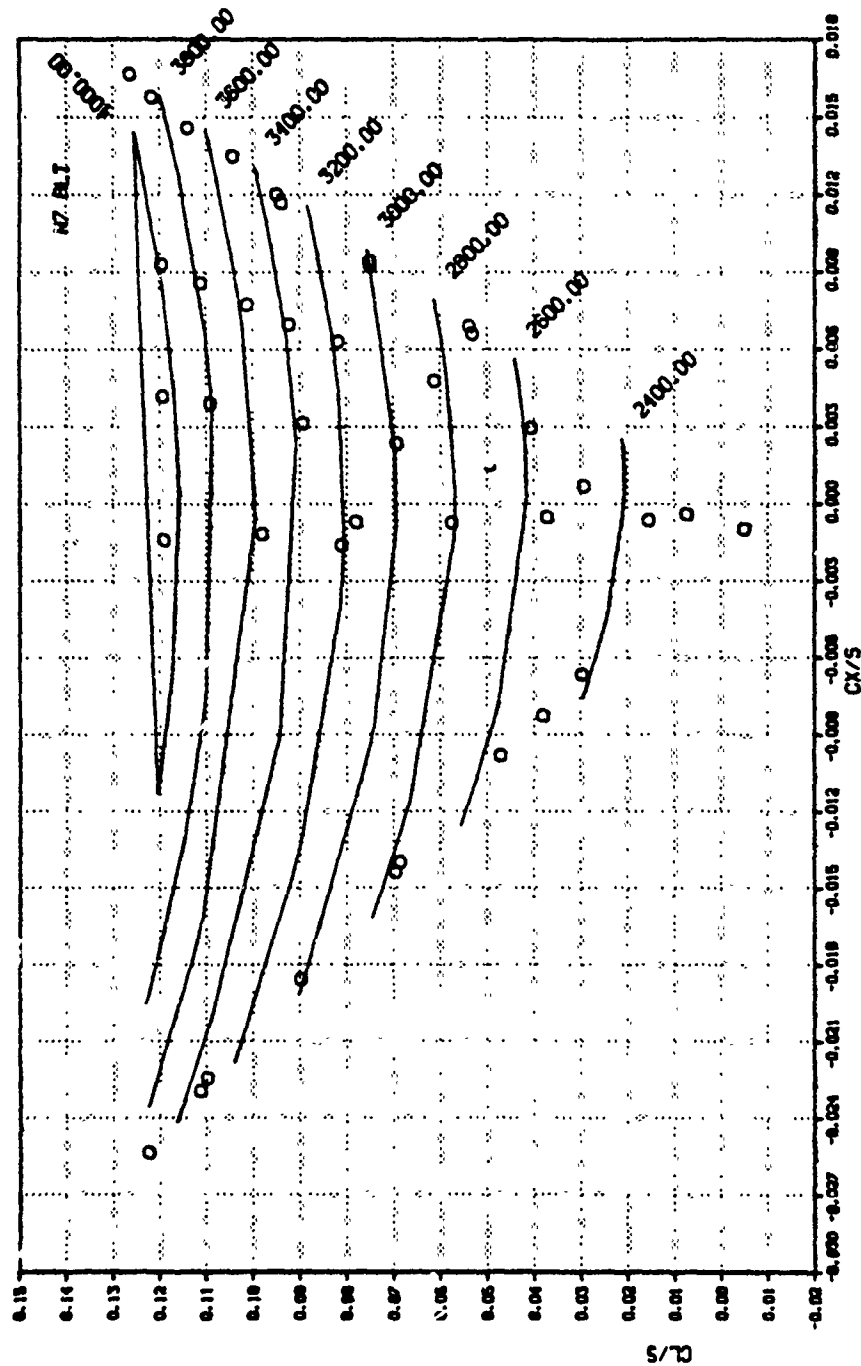
Ev - 2.082x10⁷



05/09/80
22 13 06
3

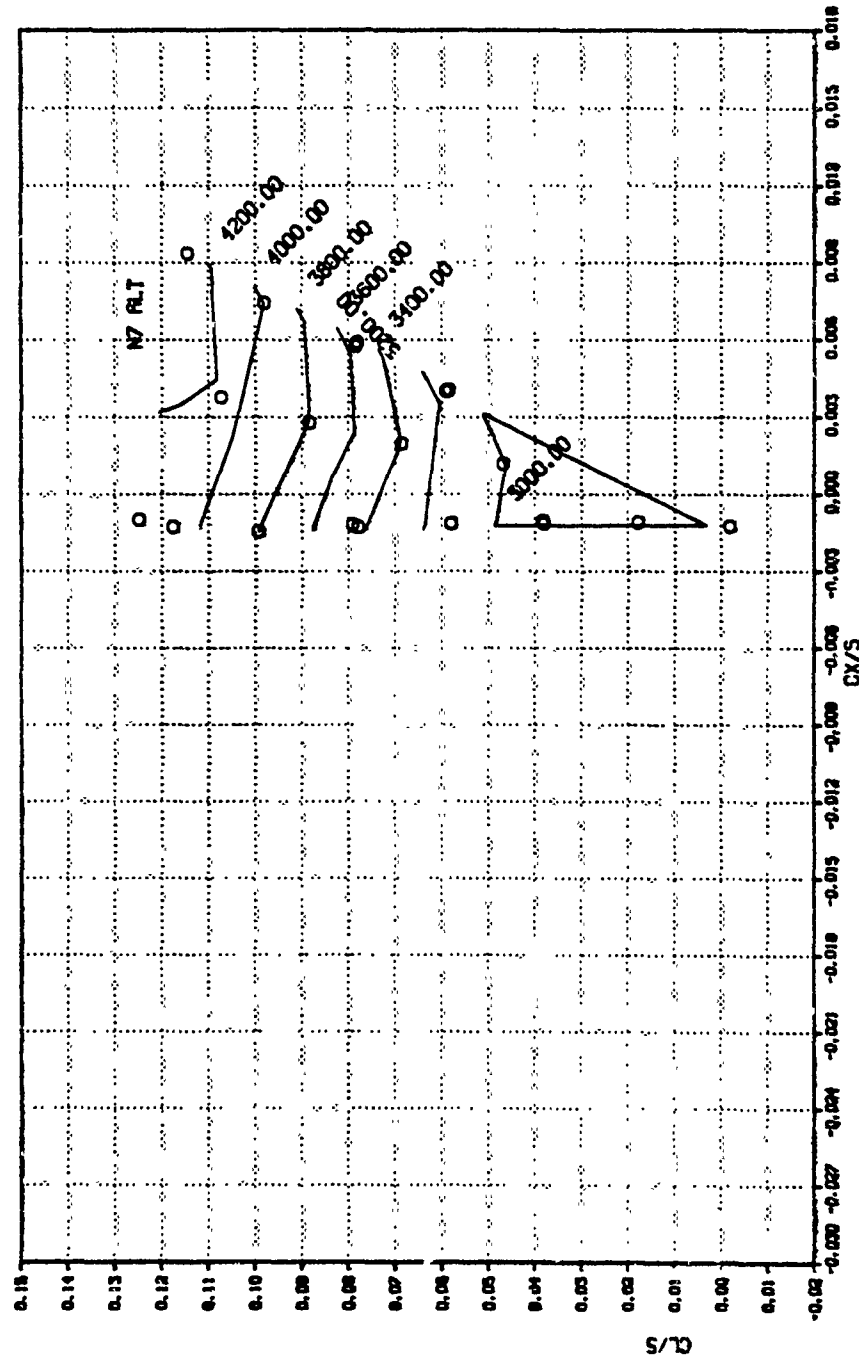
SHIPT/TACSED TIP, V/OR - .200, HRT - .720
OSCILLATING NORMAL BENDING LOAD (1.7R)

Ev - 2.574x10⁶



05/09/80
03 35 49
4

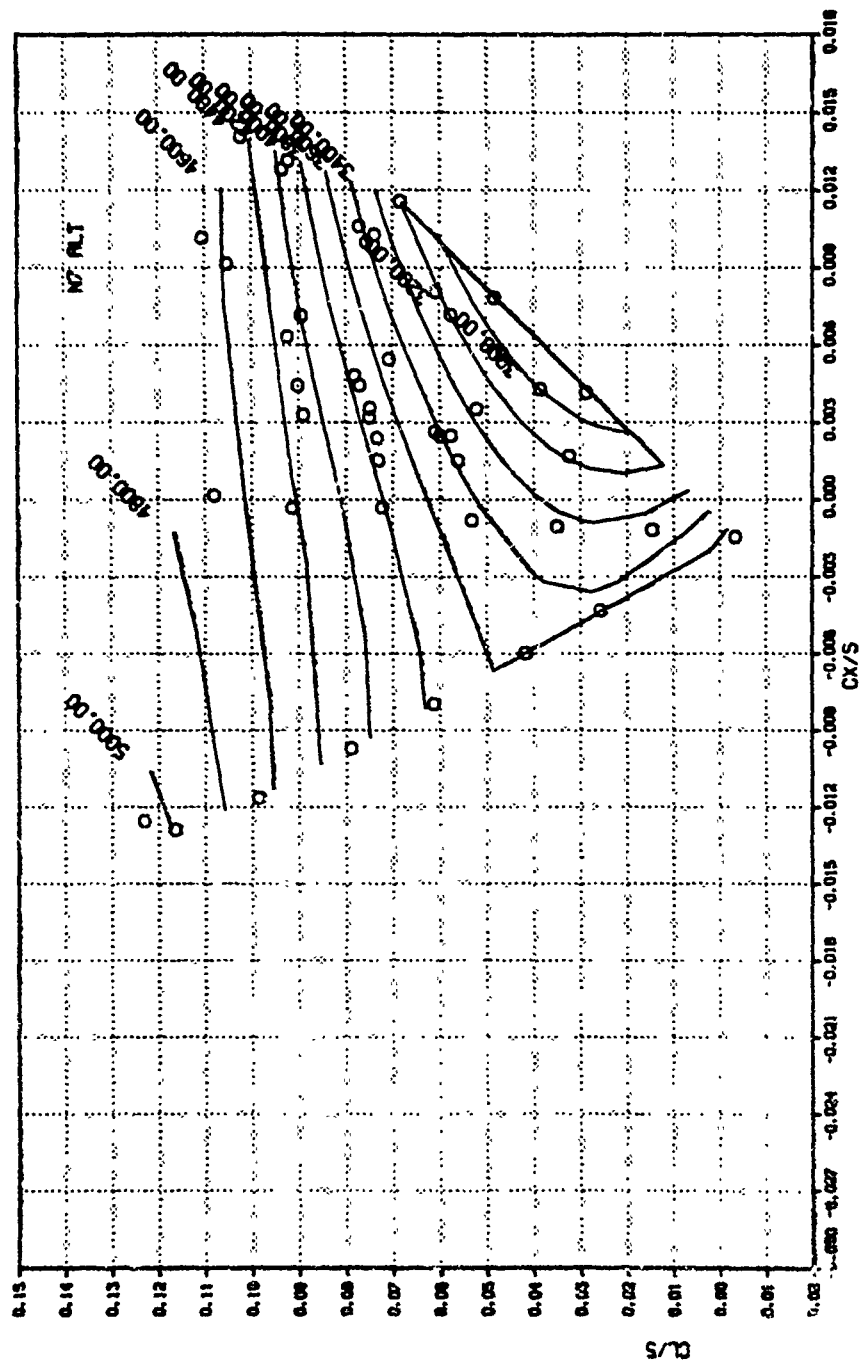
EV - 1.239E10' SHEPT/TAPERED TIP, V/OR - .250, MFI - .750
OSCILLATING NORMAL BENDING LOAD (1.7R)



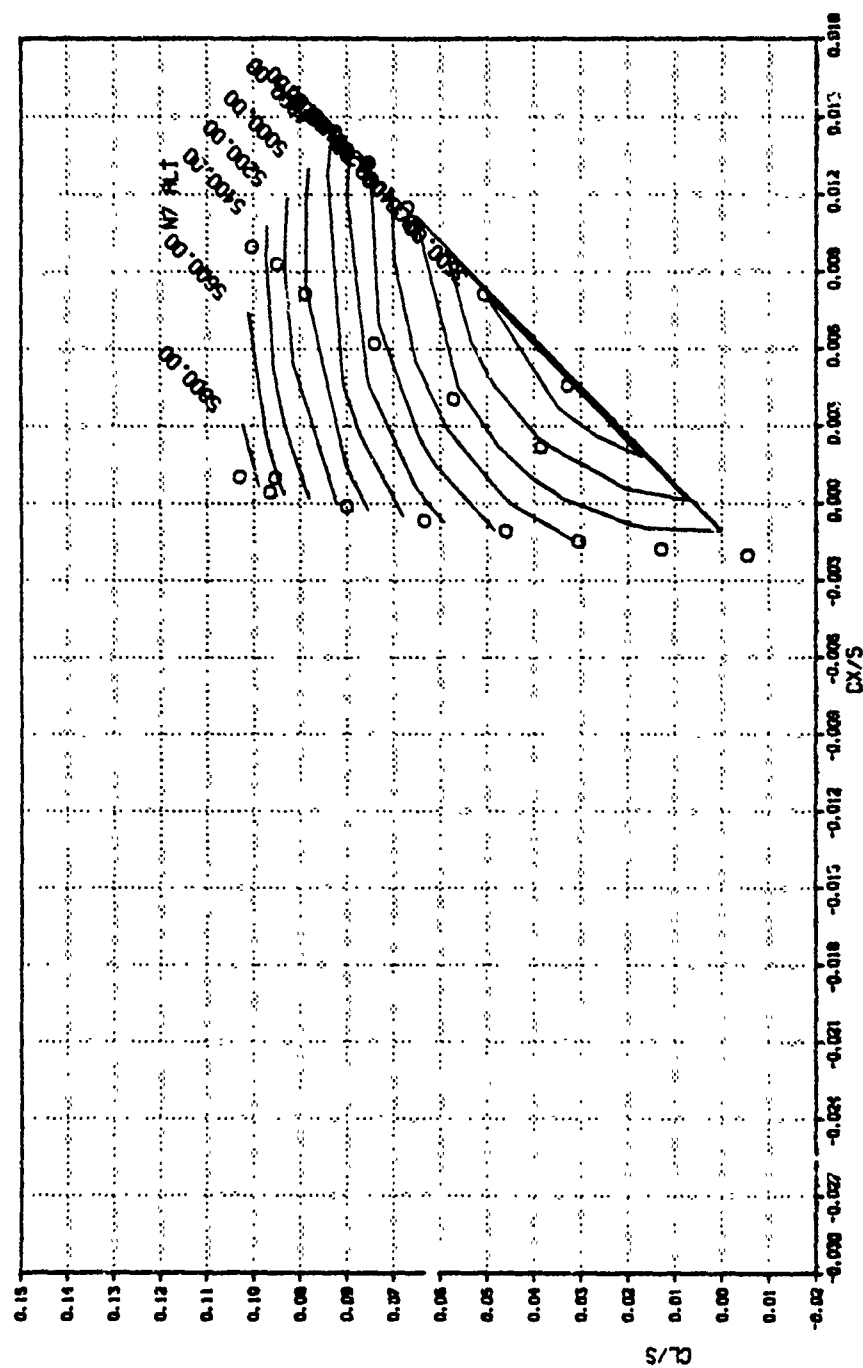
05/09/80
03 38 54
5

SAEPT/TAPERED TIP, V/OR = .300, HPT = .780
OSCILLATING NORMAL BENDING LOAD (.7R)

Ev - 1.504x10⁷



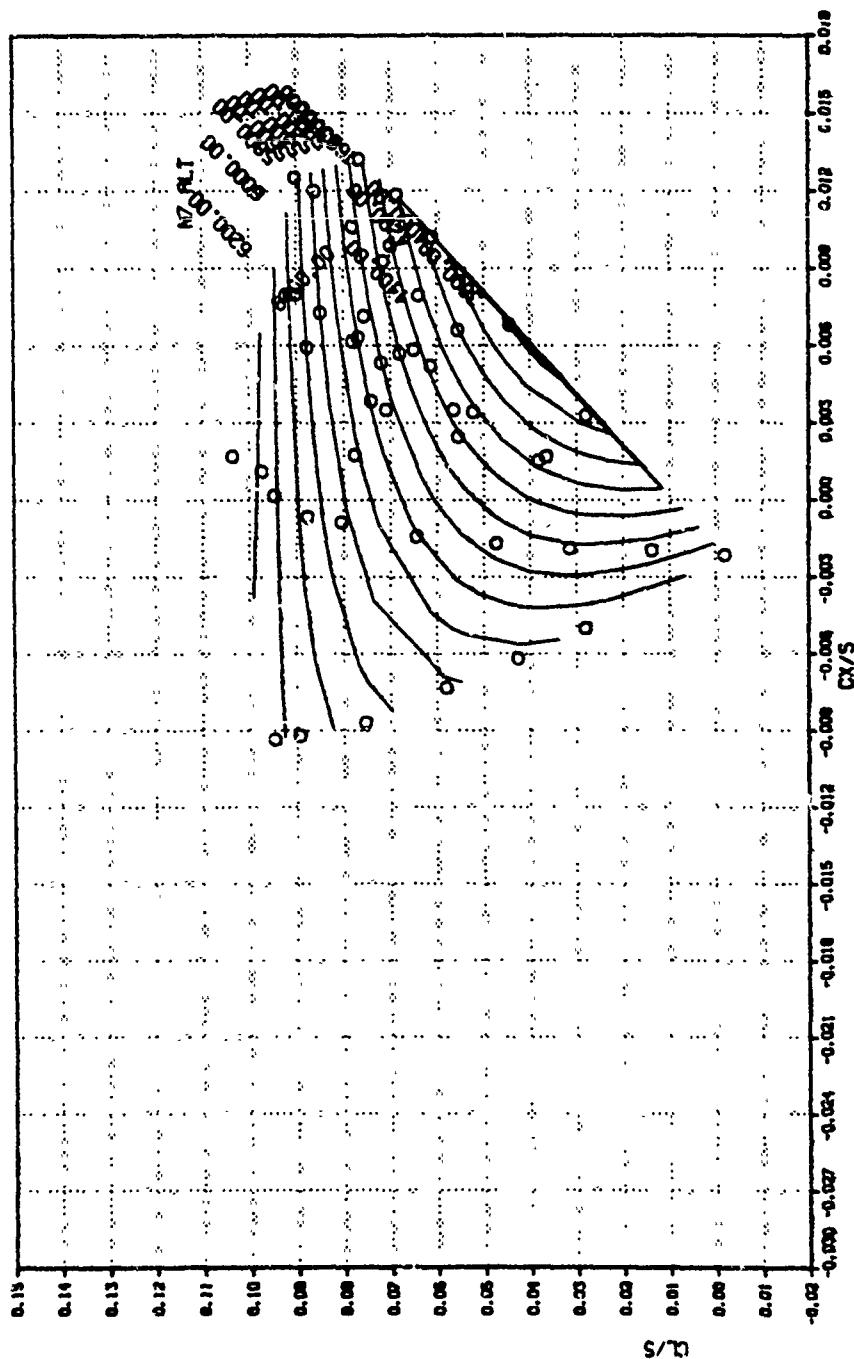
Ev - 2.947=10'



05/09/80
22 26 48
8

SHEPT/TAPERED TIP, V/OR - .400, MAT - .840
OSCILLATING NORMAL BENDING LOAD (1.7R)

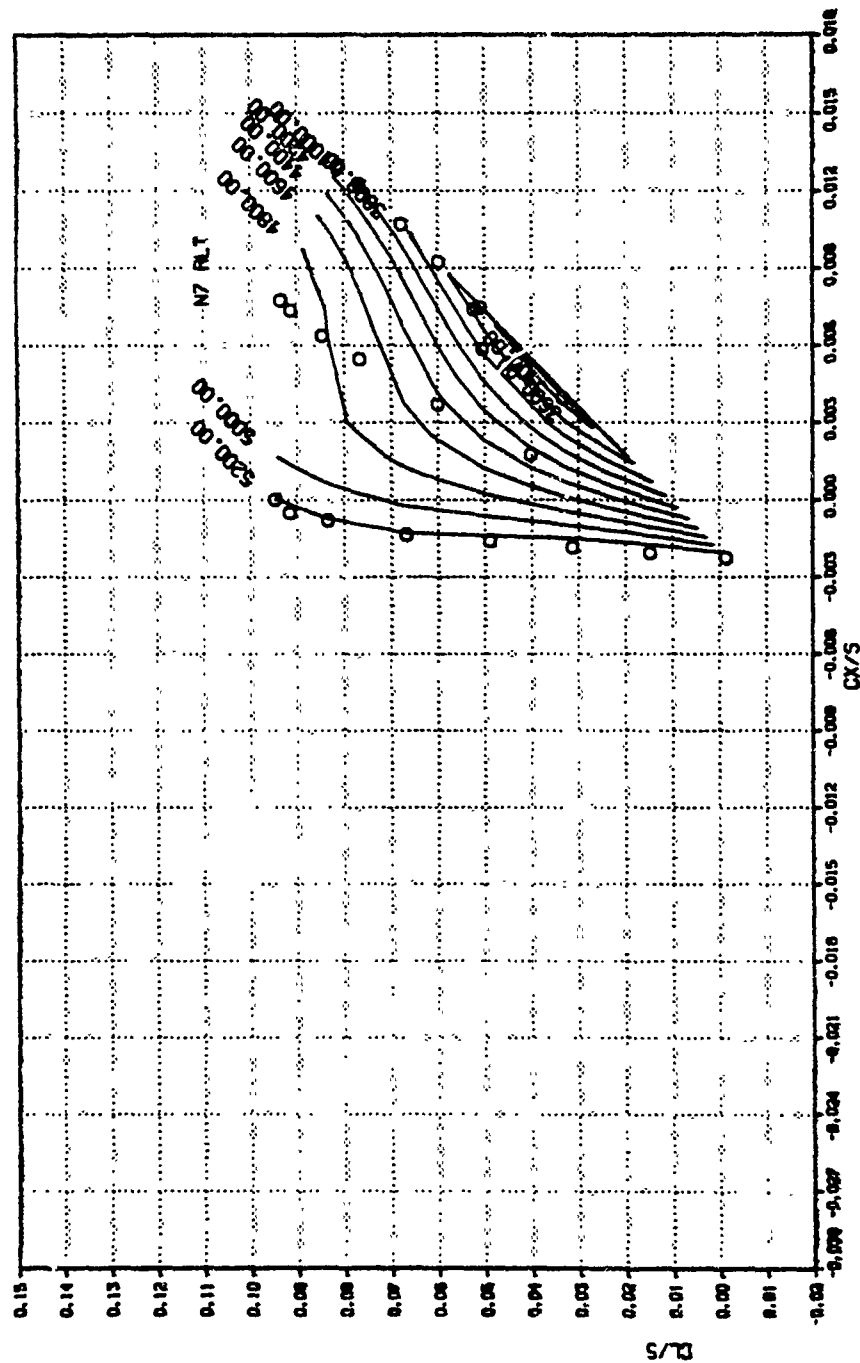
EV - 3.749 $\times 10^4$



05/09/80
03 39 17
7

SWIPT/TAPERED TIP, V/OR - .375, MAT - .695
OSCILLATING NORMAL BENDING LOAD (1.7R)

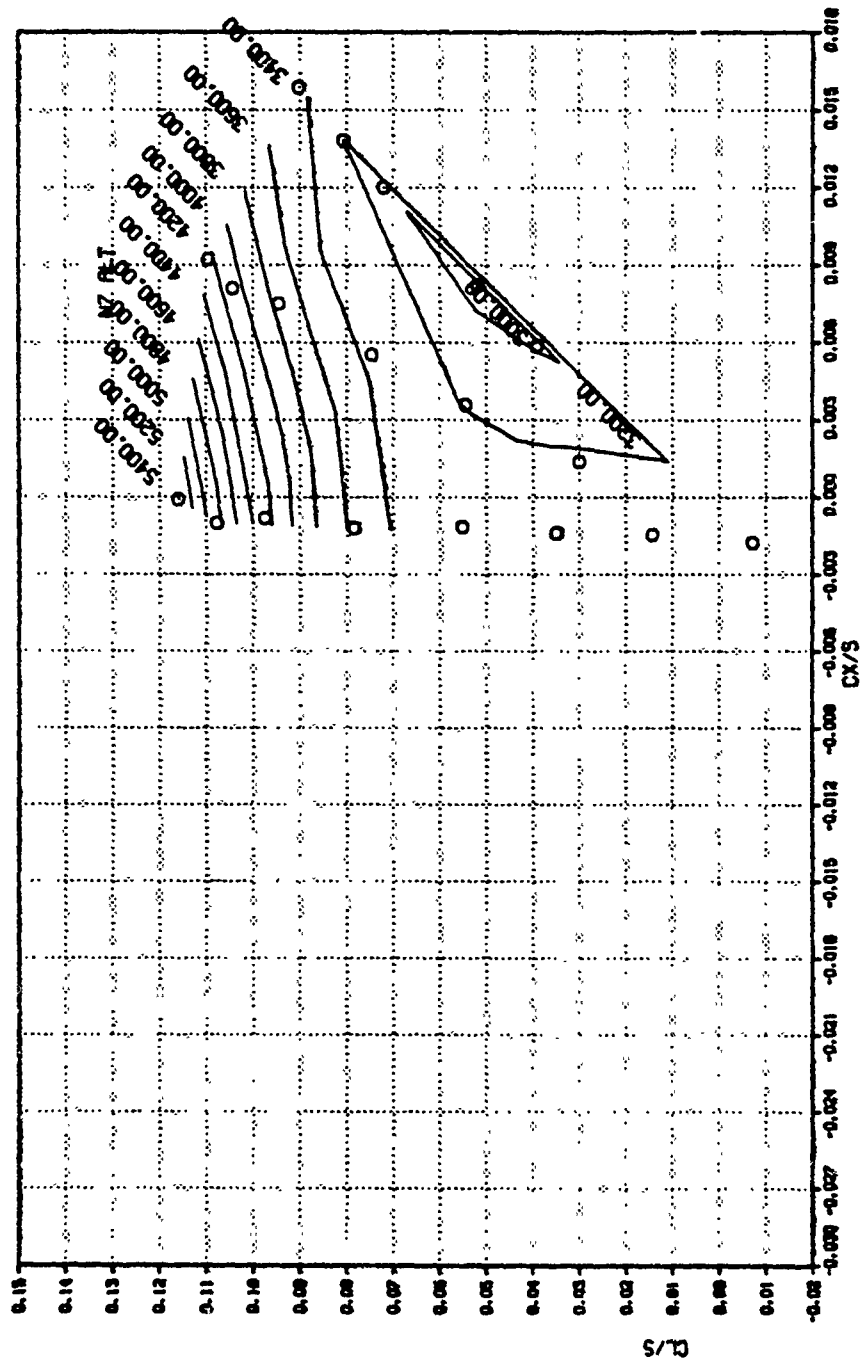
$E_v = 1.271 \times 10^4$



05/09/80
02 46 53
2

SHEPT TIP, V/OR - .300, MAT - .780
OSCILLATING NORMAL BENDING LOAD (1.7R)

Cv - 2.484E10



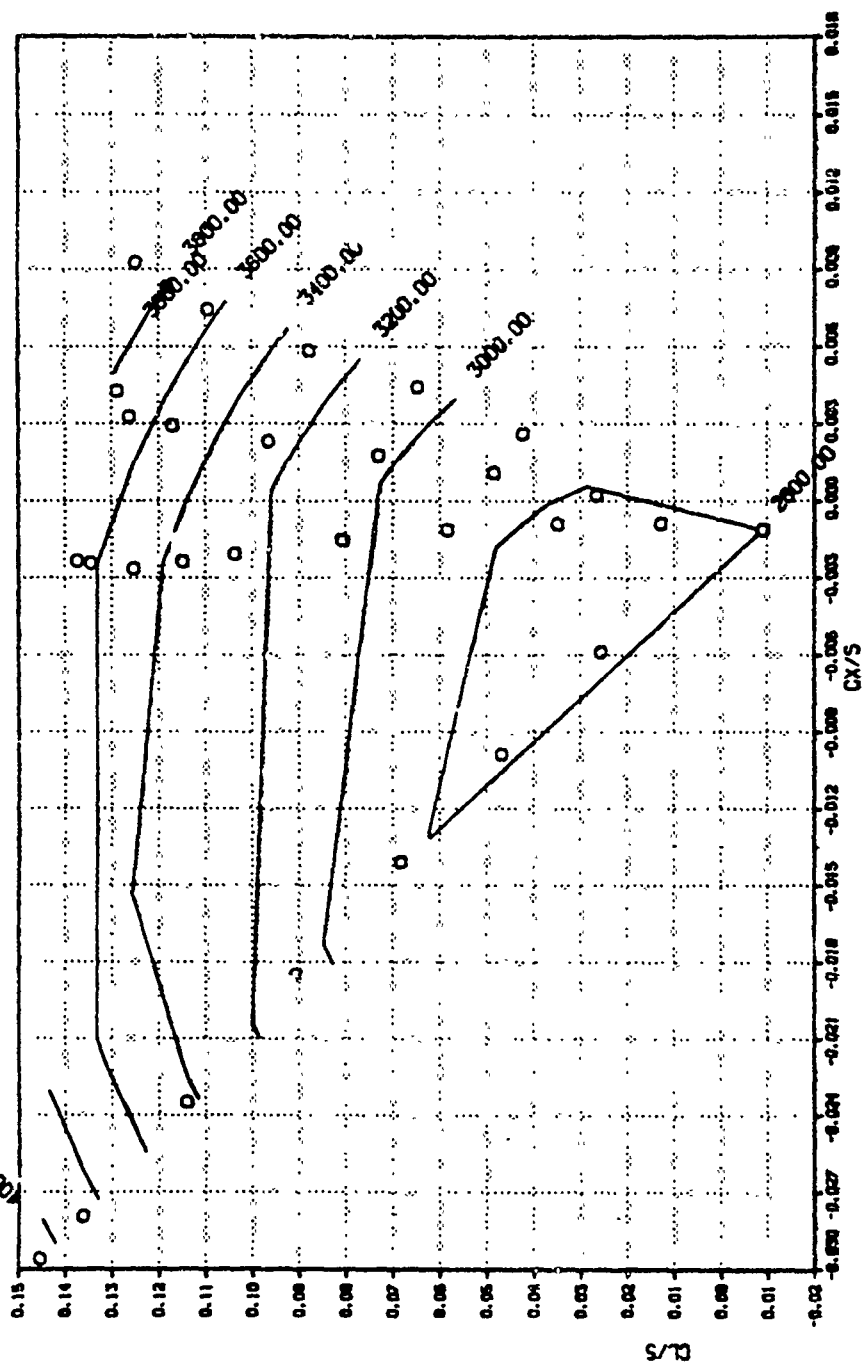
05/09/80
21 28 57
1

TAPERED TIP, V/DR = .200, HAT = .720
OSCILLATING NORMAL BENDING LOUD (.7R)

Ev - 5.274x10¹

N7 ALT

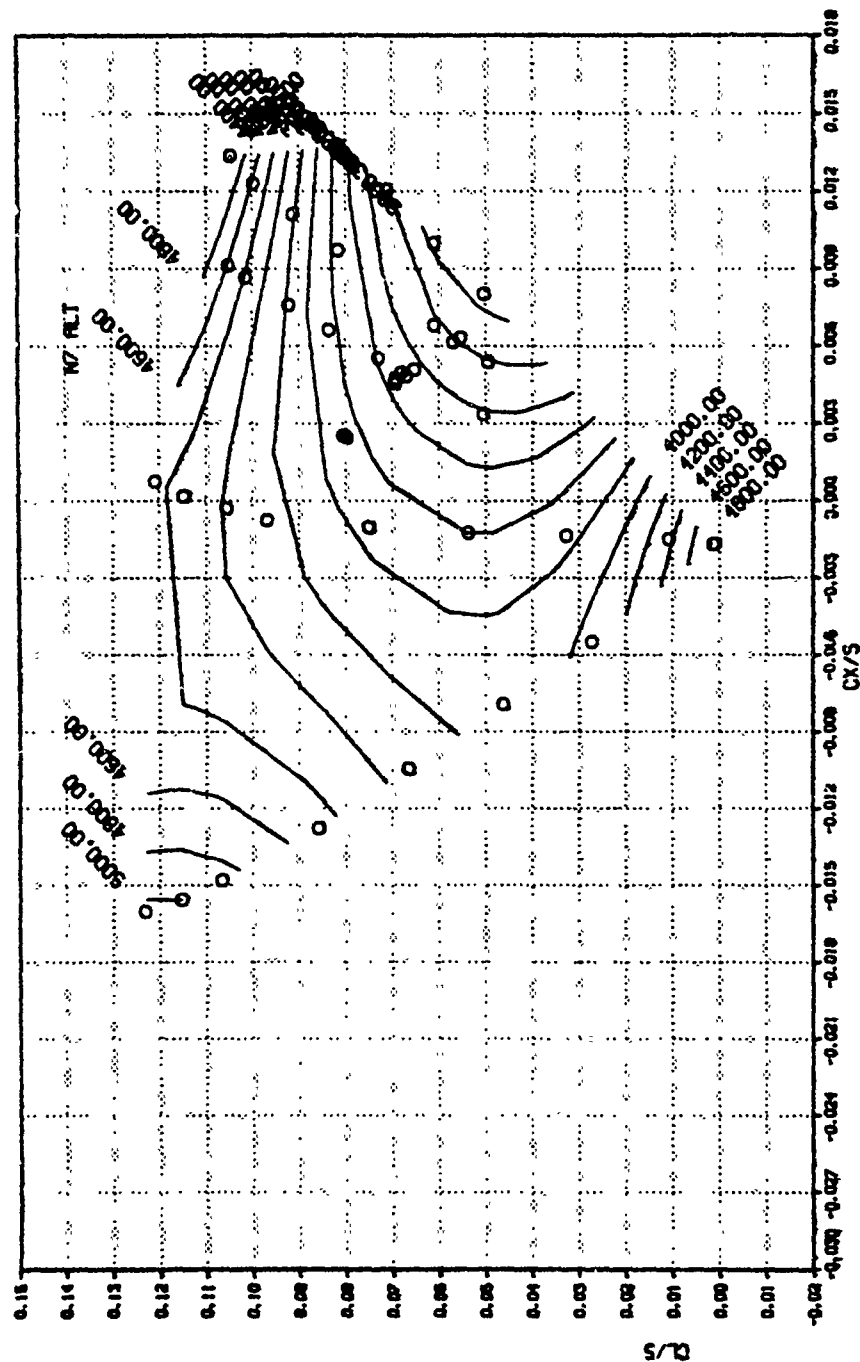
100.00



05/08/80
03 04 30
2

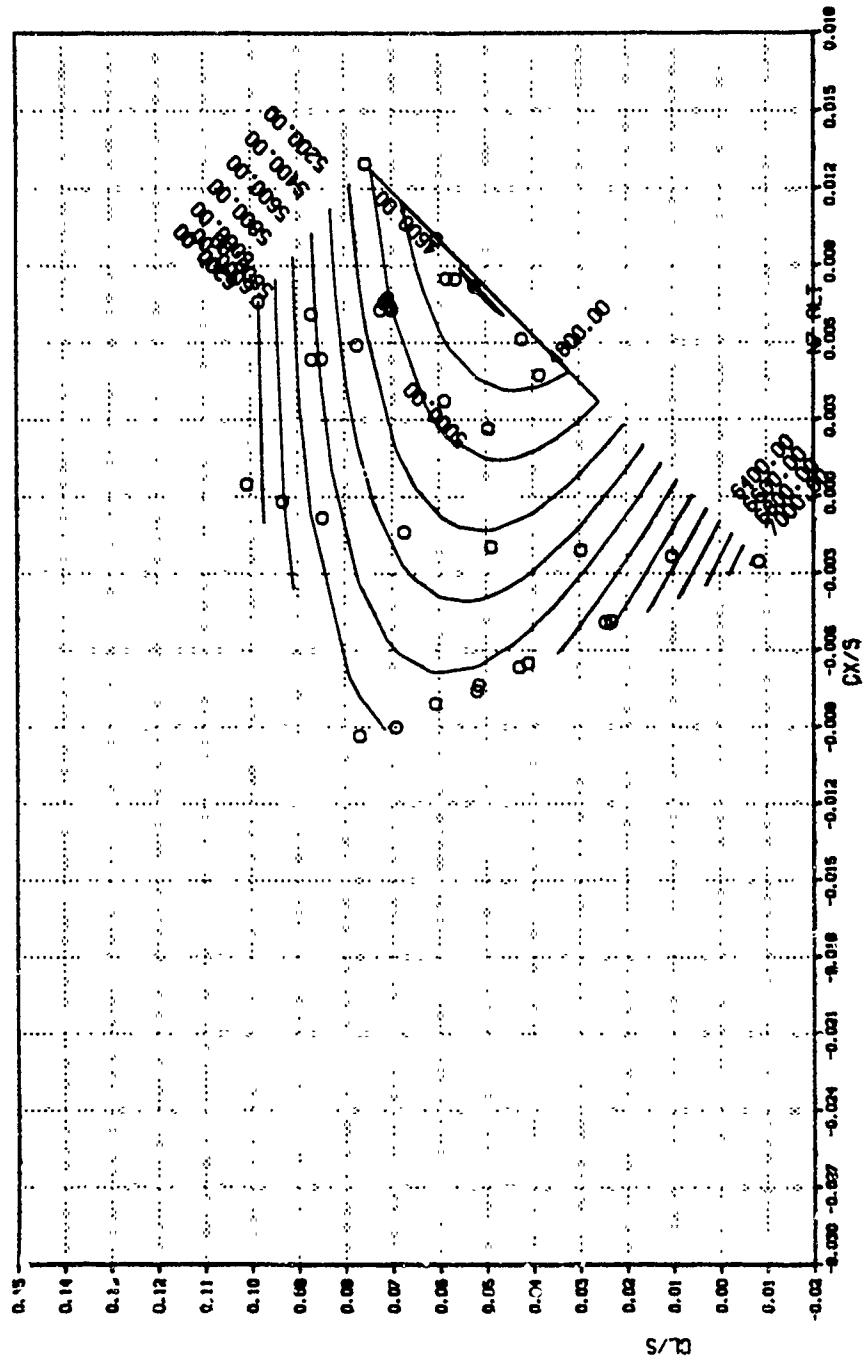
TAPERED TIP, V/OR = .300, MAT = .780
OSCILLATING NORMAL BENDING LOAD (1.7R)

$E_v = 2.113 \times 10^4$



05/04/80
21 35 30
3

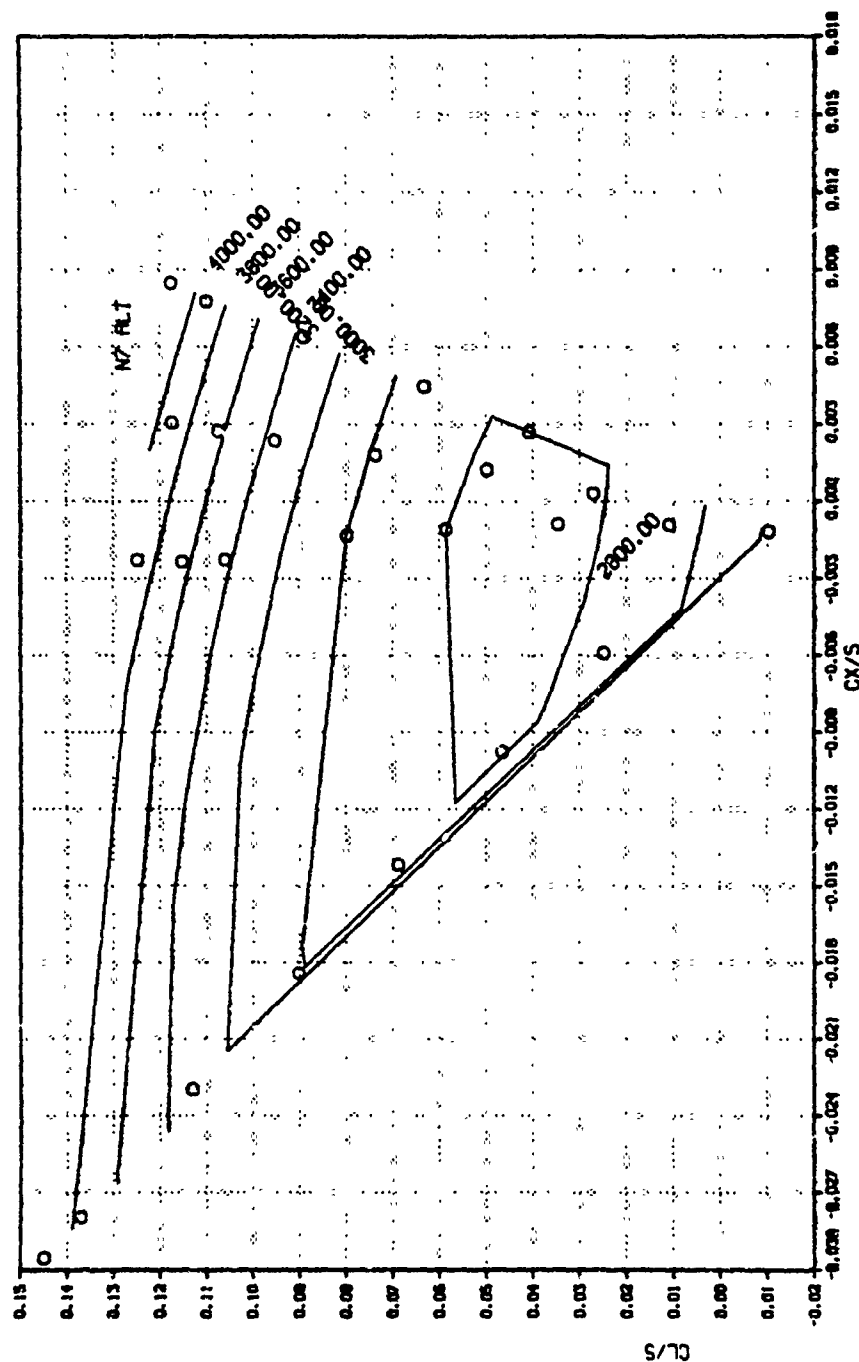
EV - 1.261e10
TAPERED TIP, V/D = .375, MAT = .825
OSCILLATING NORMAL BENDING LOAD (1.7R)



05/13/80
00 58 52
1

RECTANGULAR TIP, $V/D = .200$, $MAT = .720$
OSCILLATING NORMAL BENDING LOAD (.7R)

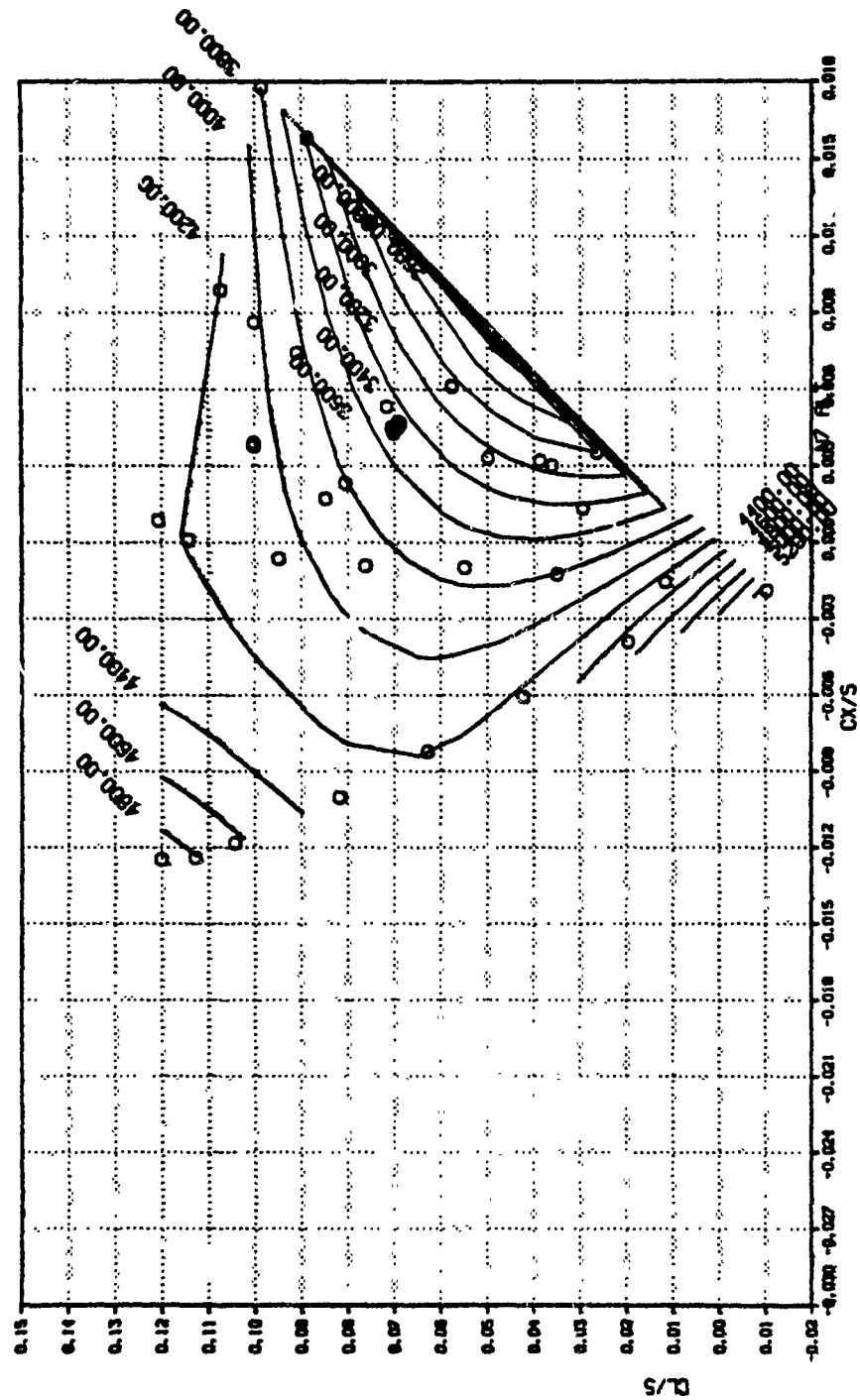
$C_v = 3.680 \times 10^1$



05/09/80
02 17 26
2

RECTANGULAR TIP, V/OR - .300, MAT - .780
OSCILLATING NORMAL BENDING LOUD (1.7R)

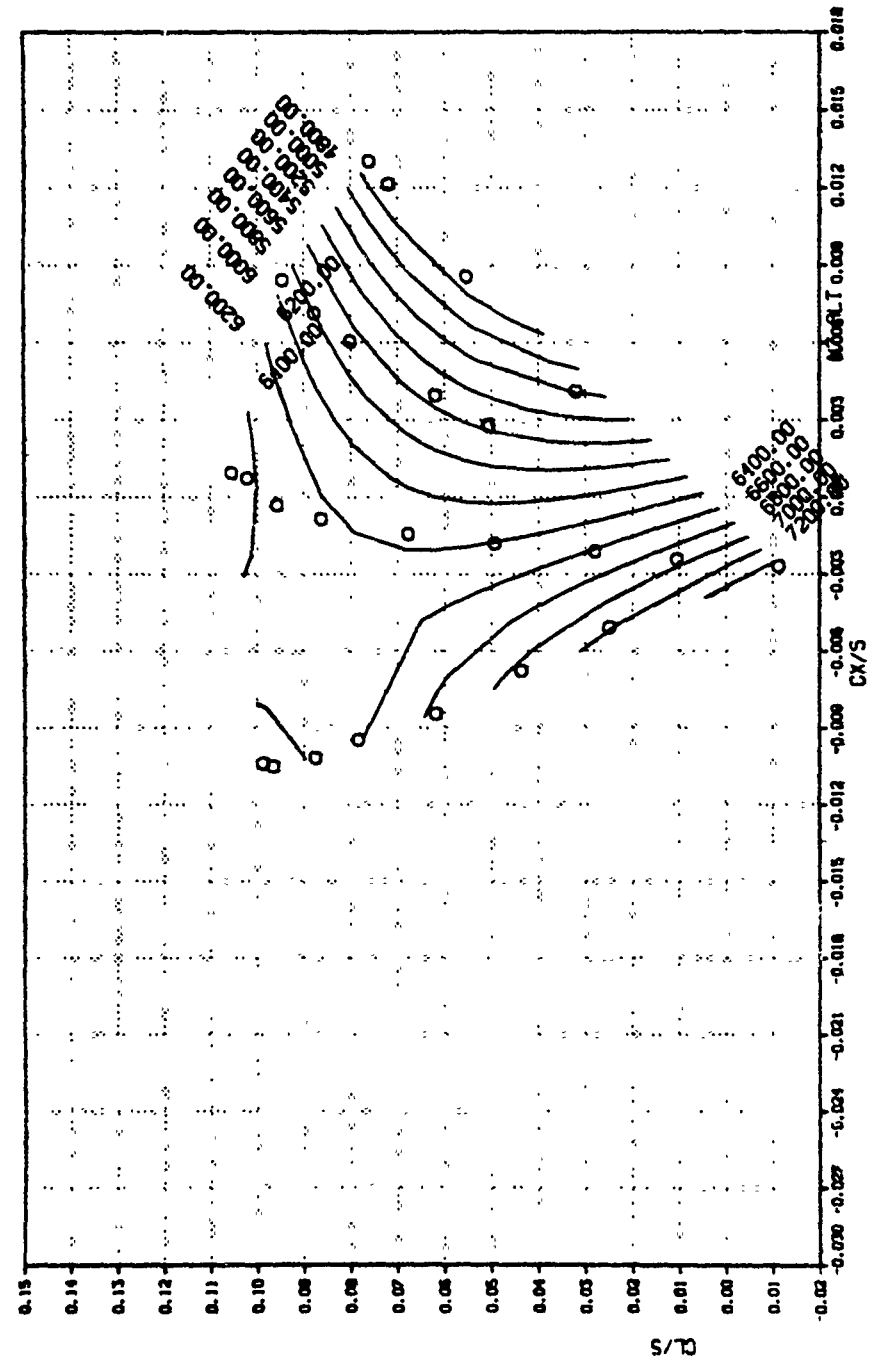
Ev - 1.947e10



05/13/60
01 06 33
3

RECTANGULAR TIP, $V/DK = .375$, $MAT = .825$
OSCILLATING NORMAL BENDING LOAD (1.7R)

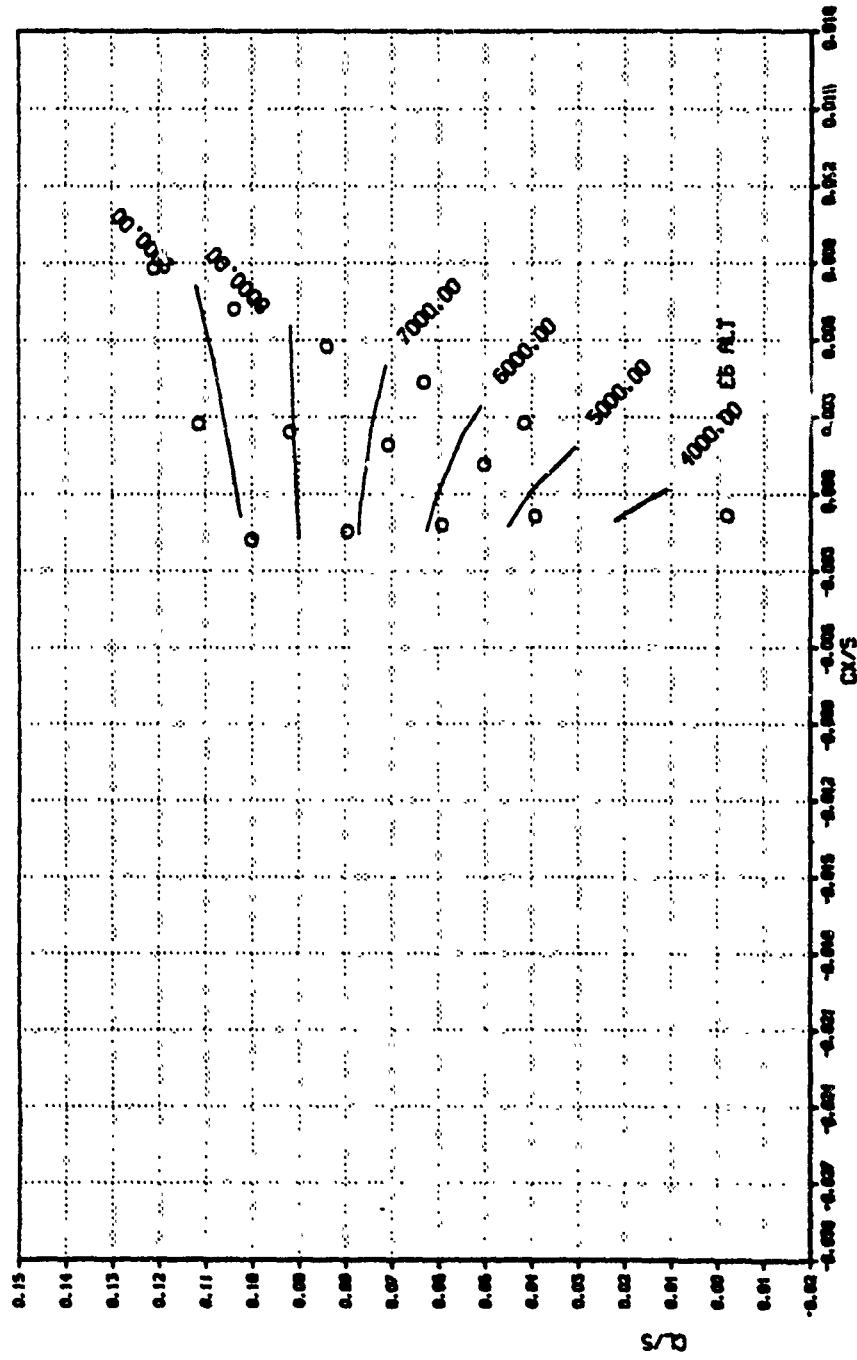
$Cv = 6.836 \times 10^{-1}$



05/09/80
21 48 35
2

SHOFT/TAPERED TIP, V/D = .200, MAT - .660
OSCILLATING EXCHISE BENDING LOPO (1.6R)

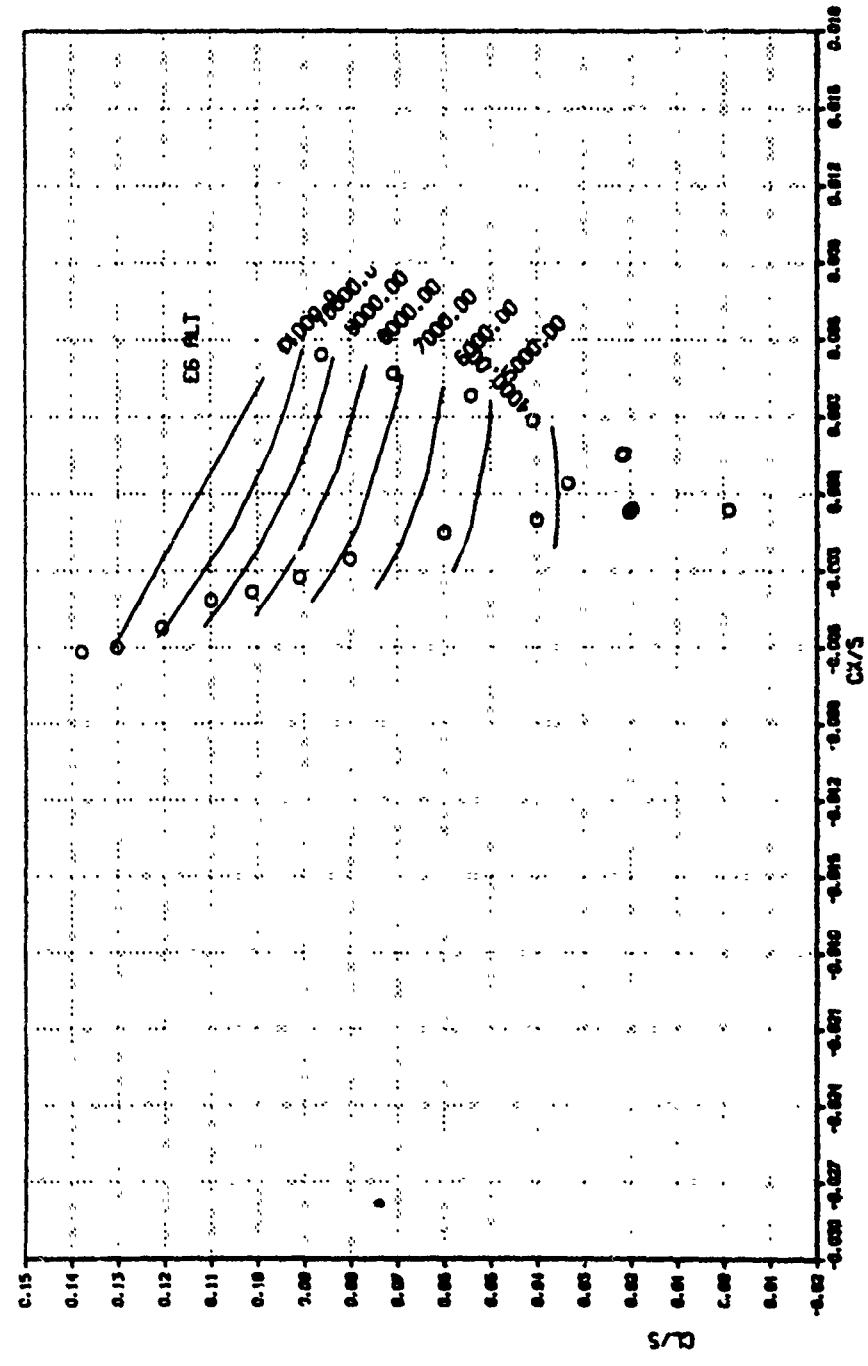
$E_v = 1.355 \times 10^7$



05/09/80
21 45 05
1

SHOFT/TAPERED TIP, V/D = .150, MAT = .685
OSCILLATING EDGEWISE BENDING LOAD (.68)

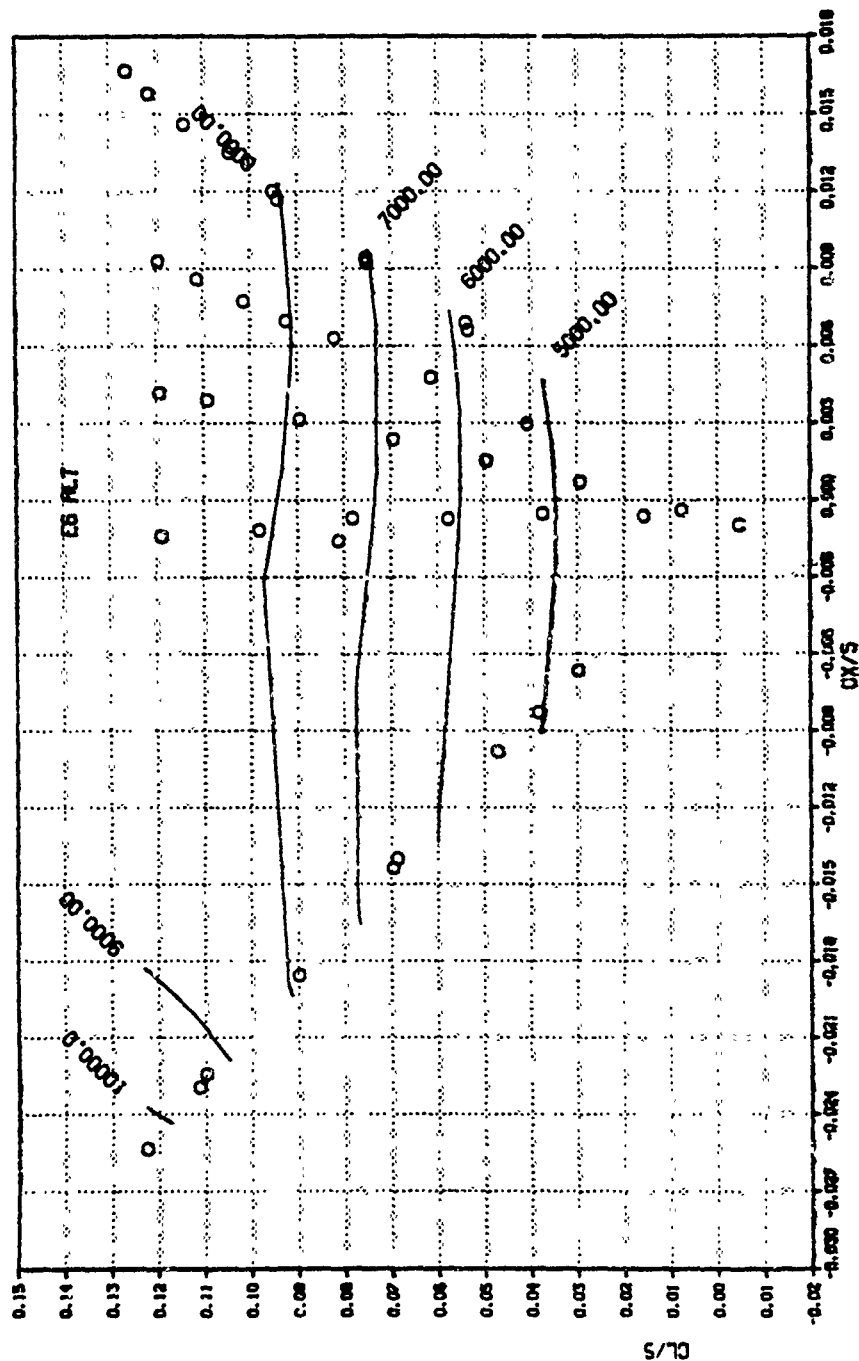
$C_v = 1.396 \times 10^3$



05/09/80
03 18 44
3

SWIPT/TAPERED TIP, V/OR = .200, MAT = .720
OSCILLATING EDGEWISE BENDING LOAD (1.6R)

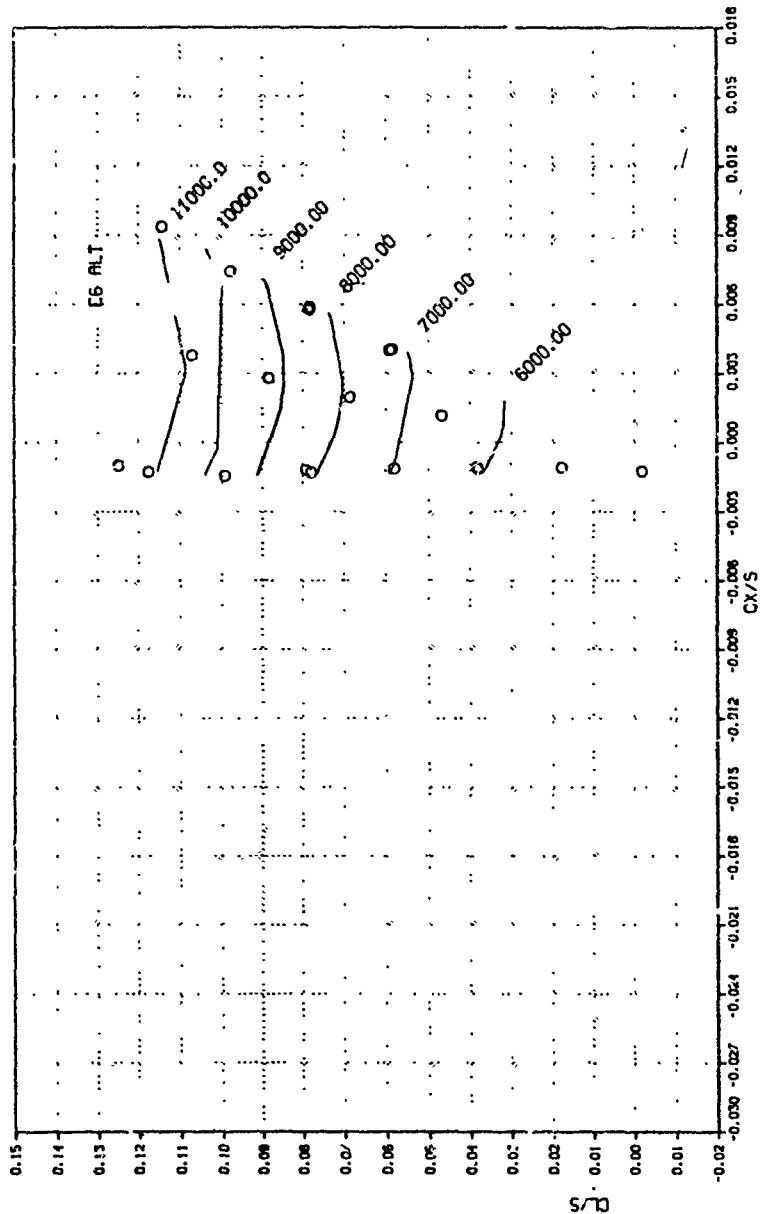
Cv = 5.579E-10



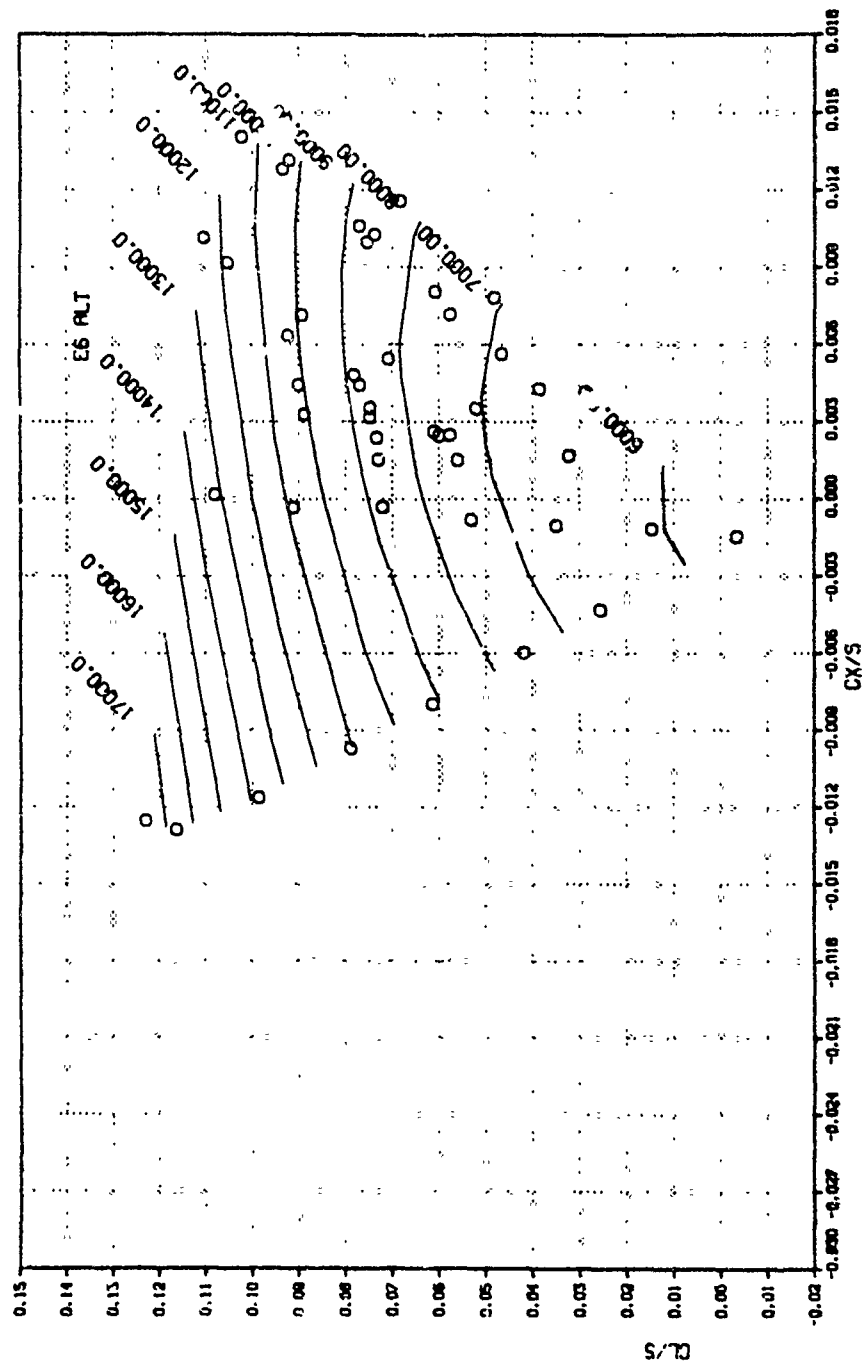
05/09/80
21 53 10
4

SHEPT/TAPERED TIP, V/OR = .250, MAT = .750
OSCILLATING EDGEWISE BENDING LOAD (.6R)

$E_v = 7.959 \times 10^4$



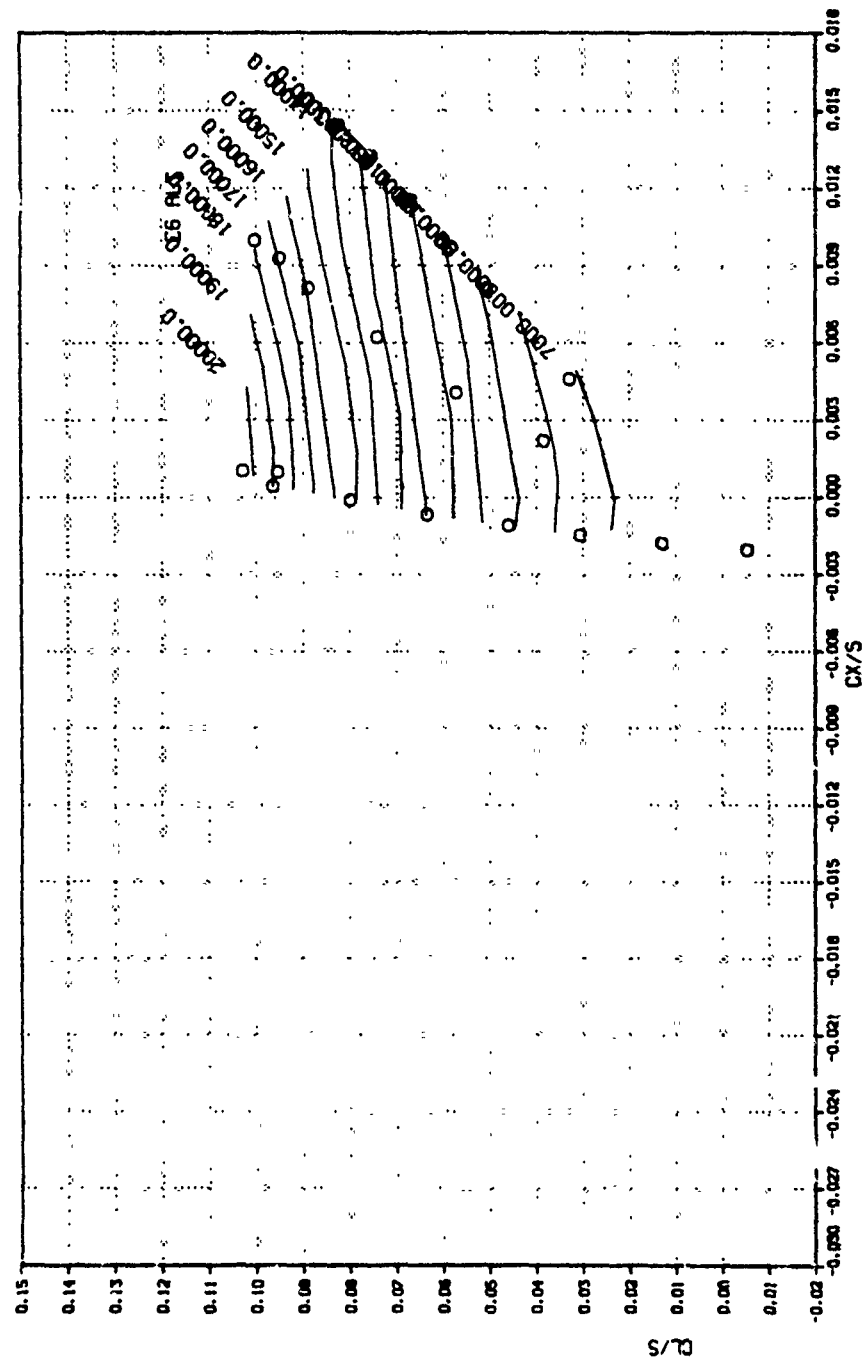
Ev - 7.336miu.



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03 23 07
6

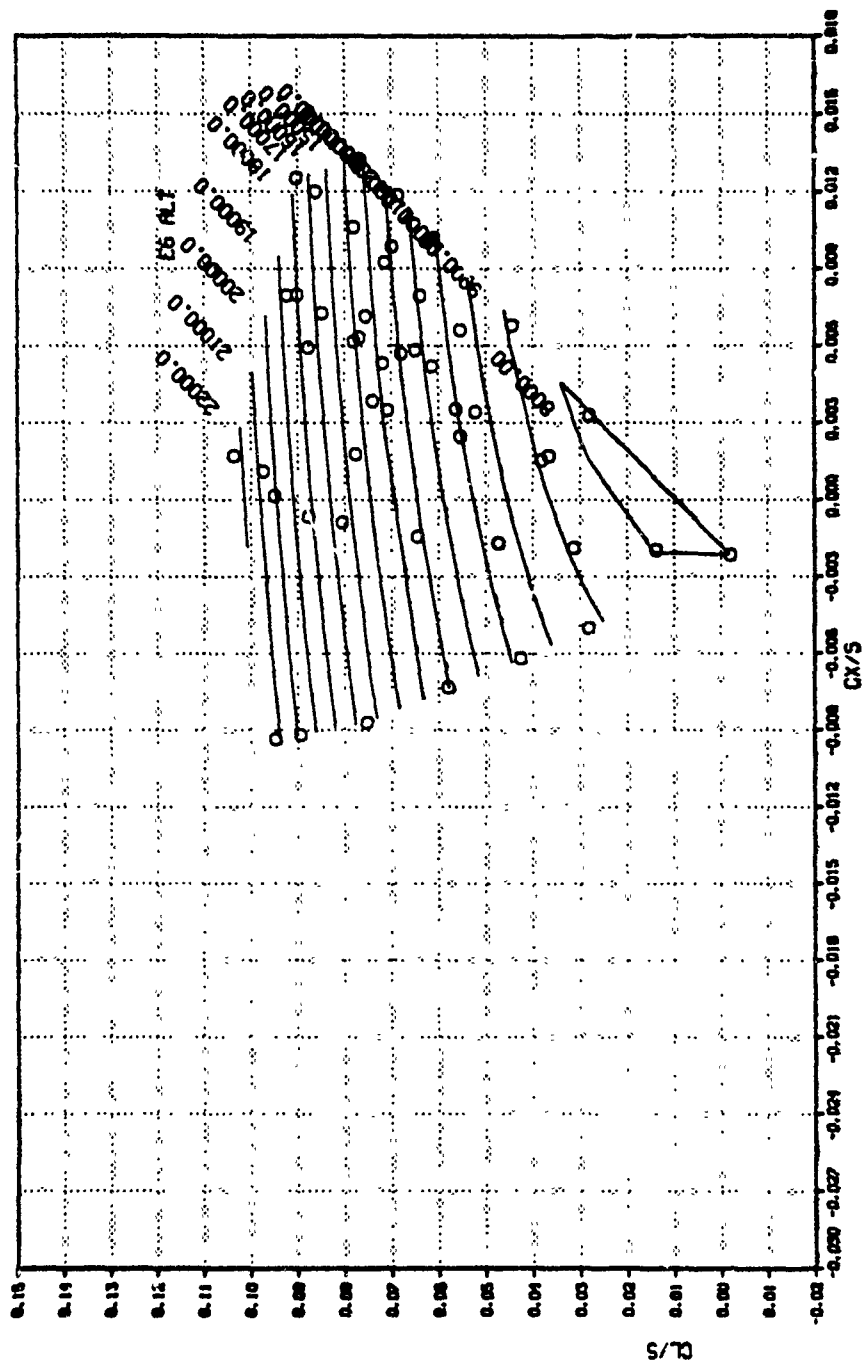
SHEPT/TAPERED TIP, V/OR = .375, MAT = .825
OSCILLATING EDGEWISE BENDING LOAD (.6R)

EV - 9.786E+10



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22 01 25
8

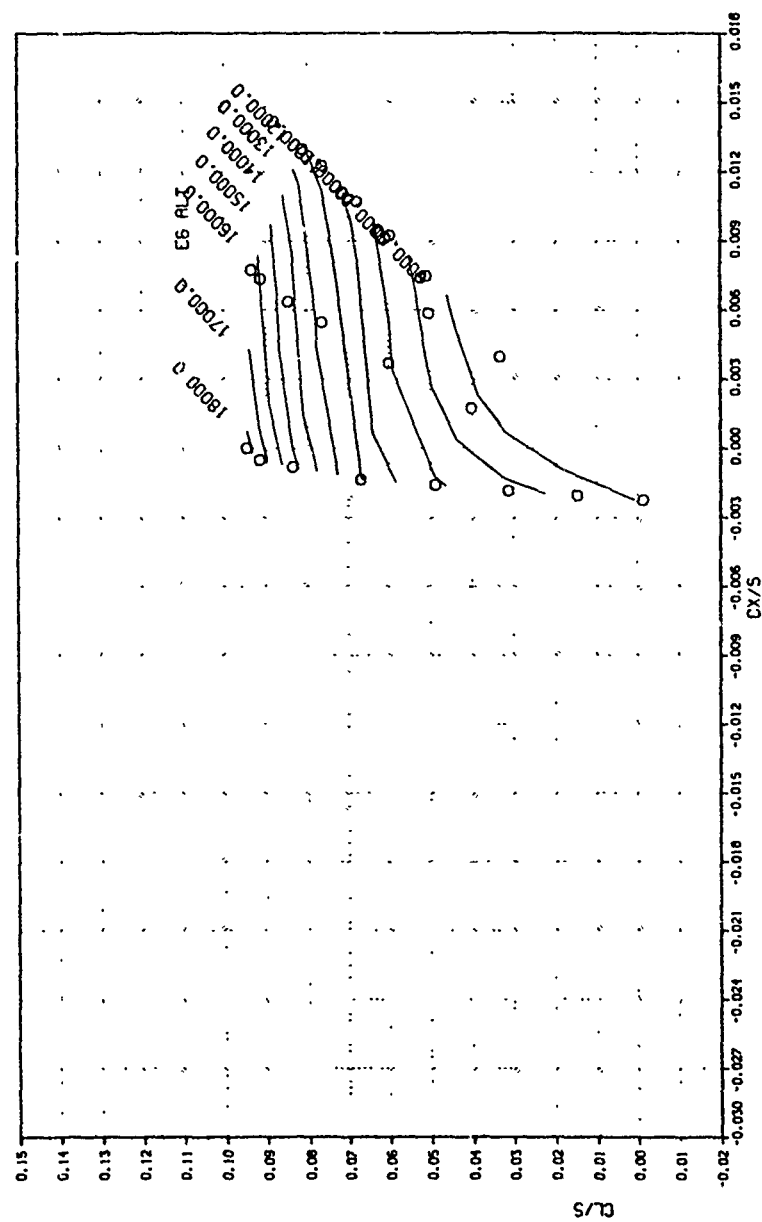
CV - 9.067*10⁴
SWEPT/TAPERED TIP, V/OR - .400, MFT - .840
OSCILLATING EDGEWISE BENDING LOAD (1.6R)



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03 24 42
7

SHEPT/TAPERED TIP, V/C/R = .375, MAT = .895
OSCILLATING EDGEWISE BENDING LOAD (1.6R)

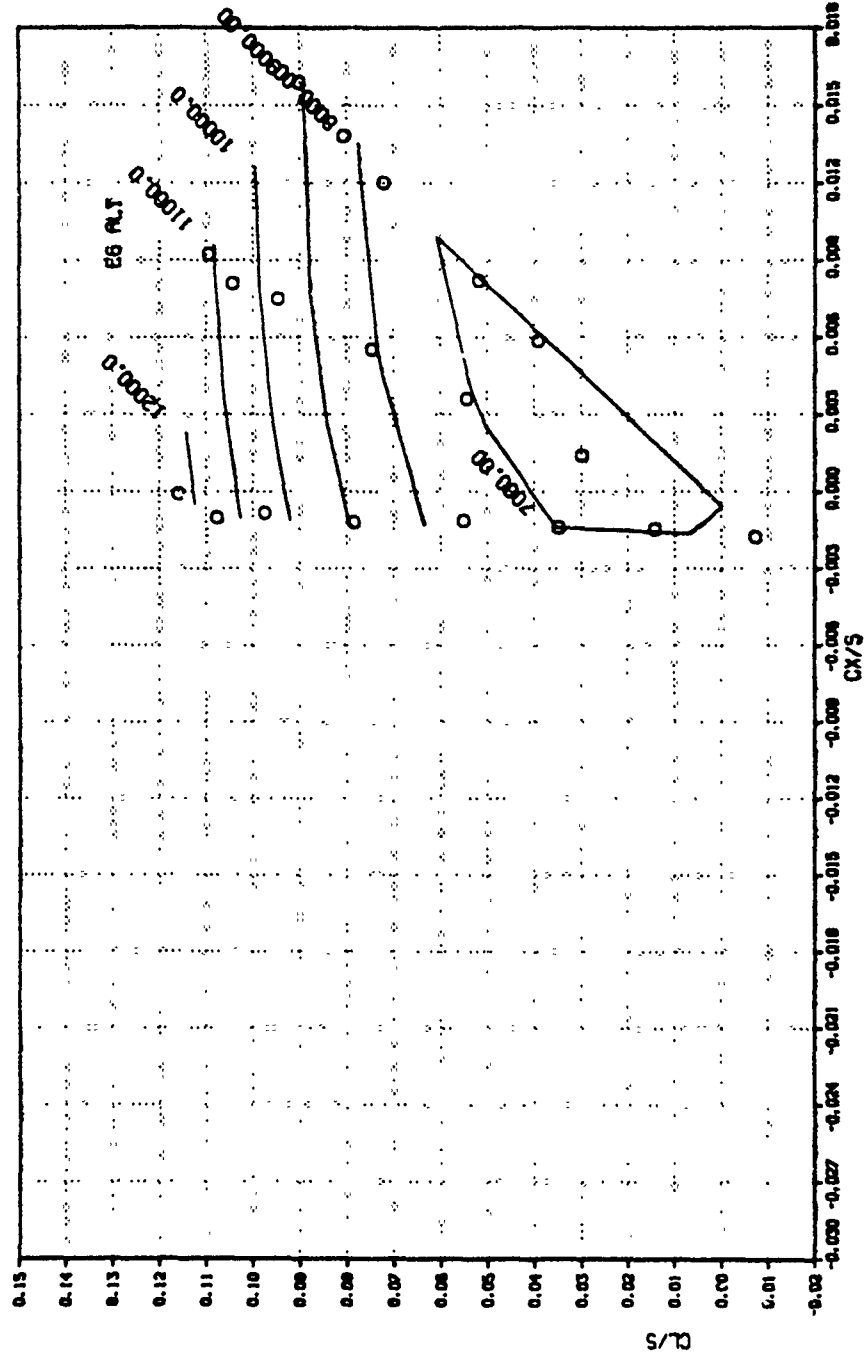
$E_v = 5.243 \times 10^4$



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21 04 54
2

SWEPT TIP, V/OR - .300, MAT - .780
OSCILLATING EDGEWISE BENDING LOAD (1.6R)

$E_v = 8.268 \times 10^7$

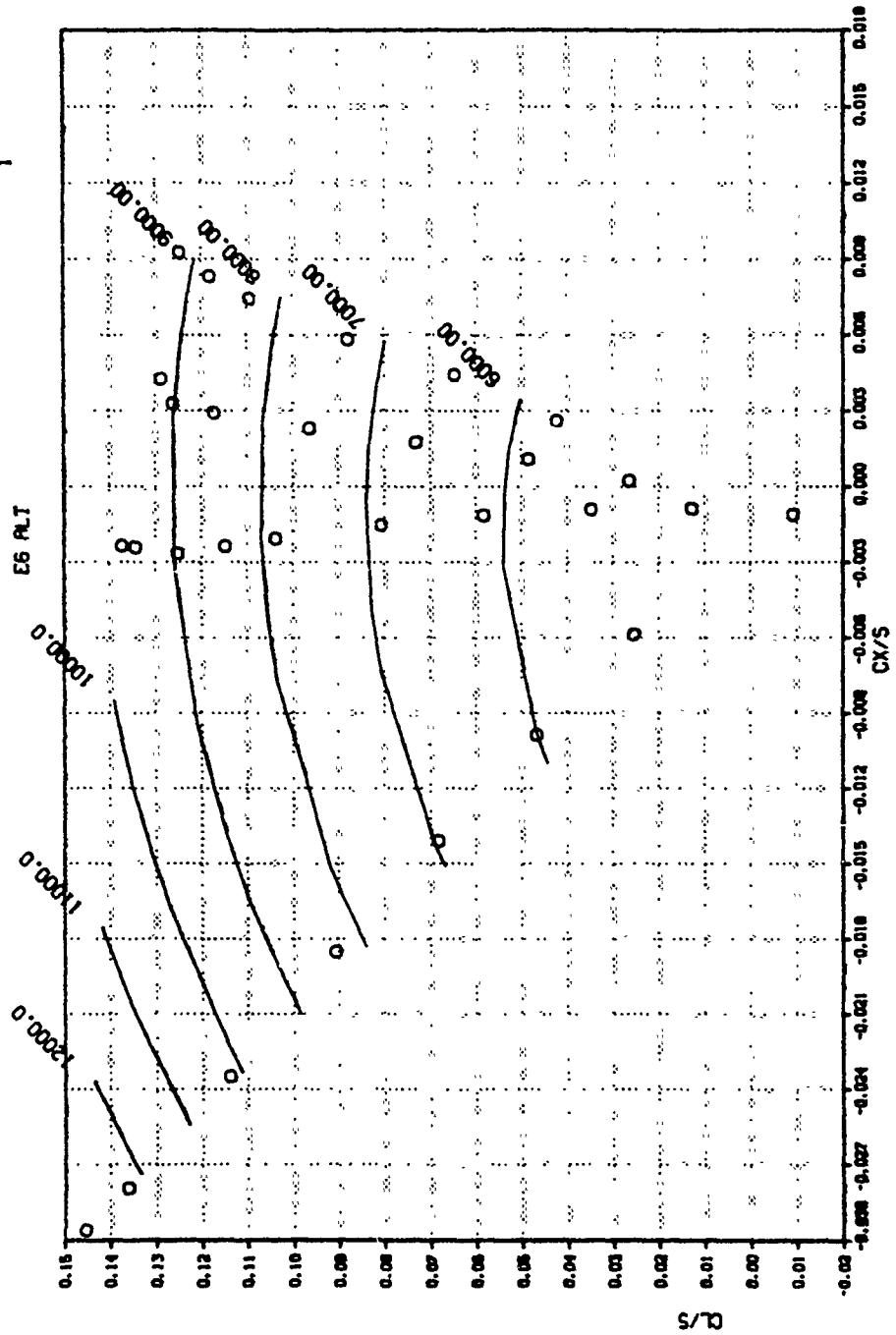


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21 18 28
1

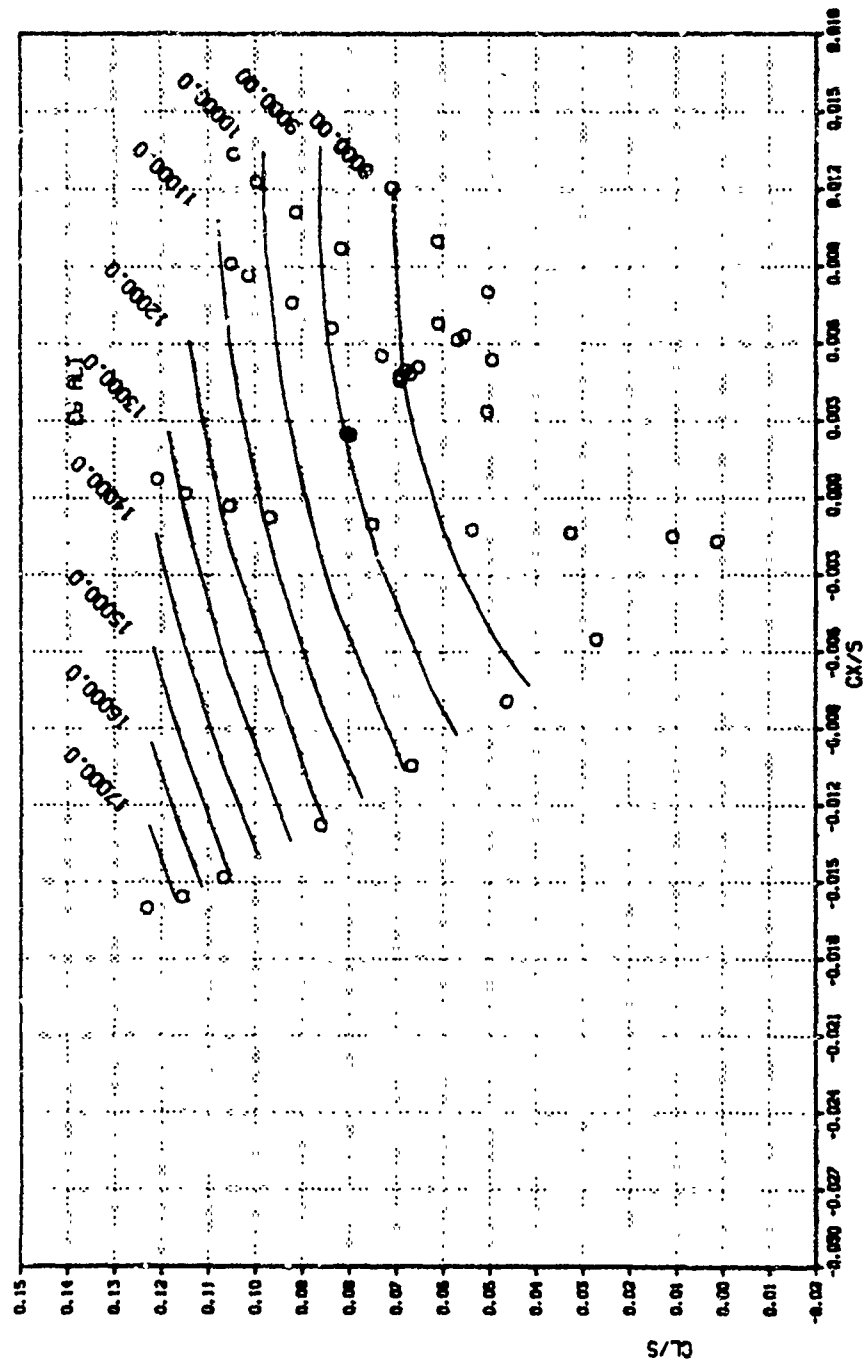
TAPERED TIP, V/OR - .200, MAT - .720
OSCILLATING EDGEWISE BENDING LOAD (1.6R)

$E_v = 1.271 \times 10^8$

ES ALT



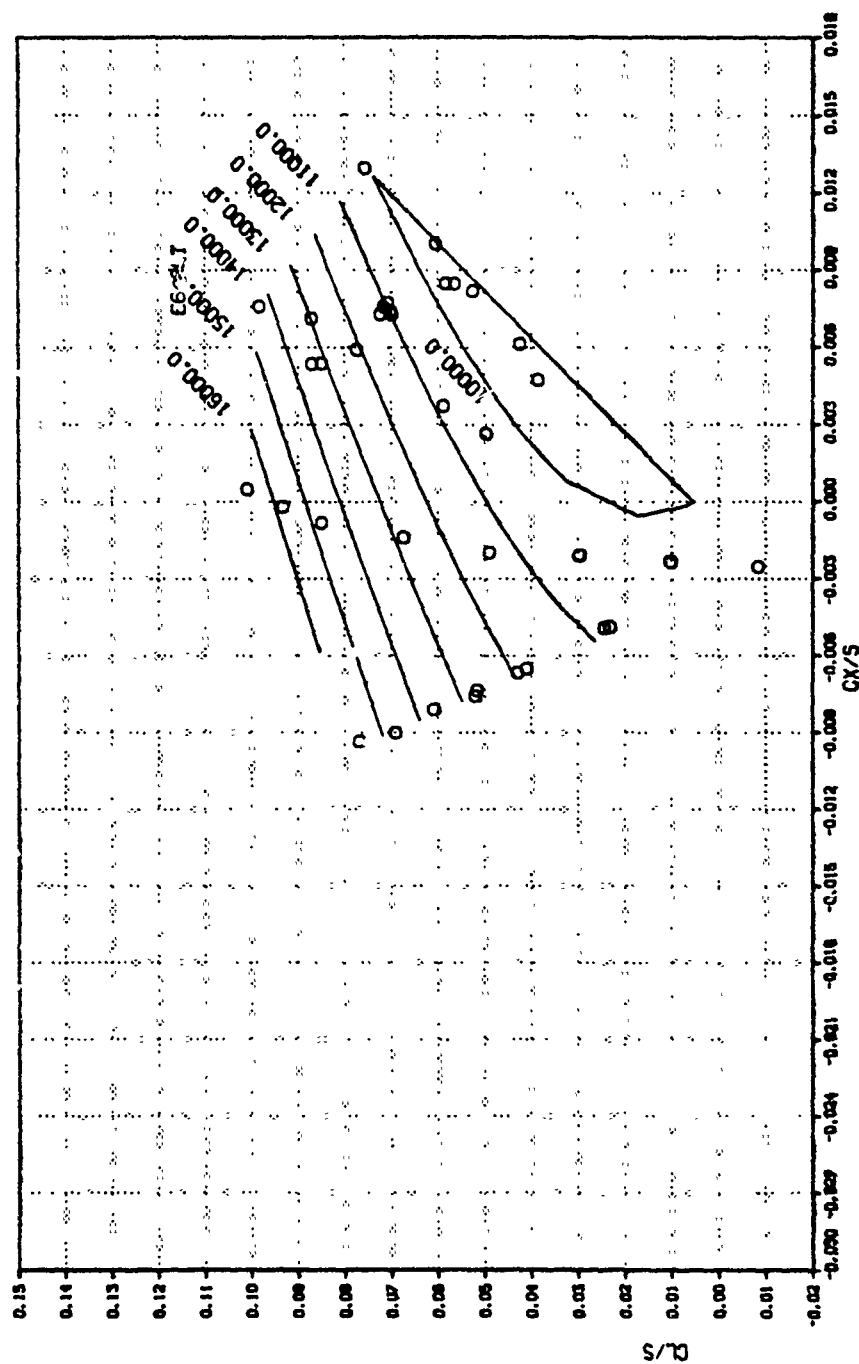
Ev - 5.631M10'



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21 22 46
3

TAPERED TIP, V/OR = .375, MAT = .825
OSCILLATING EDGEWISE BENDING LOAD (.6R)

$\epsilon_v = 1.713 \times 10^{-3}$

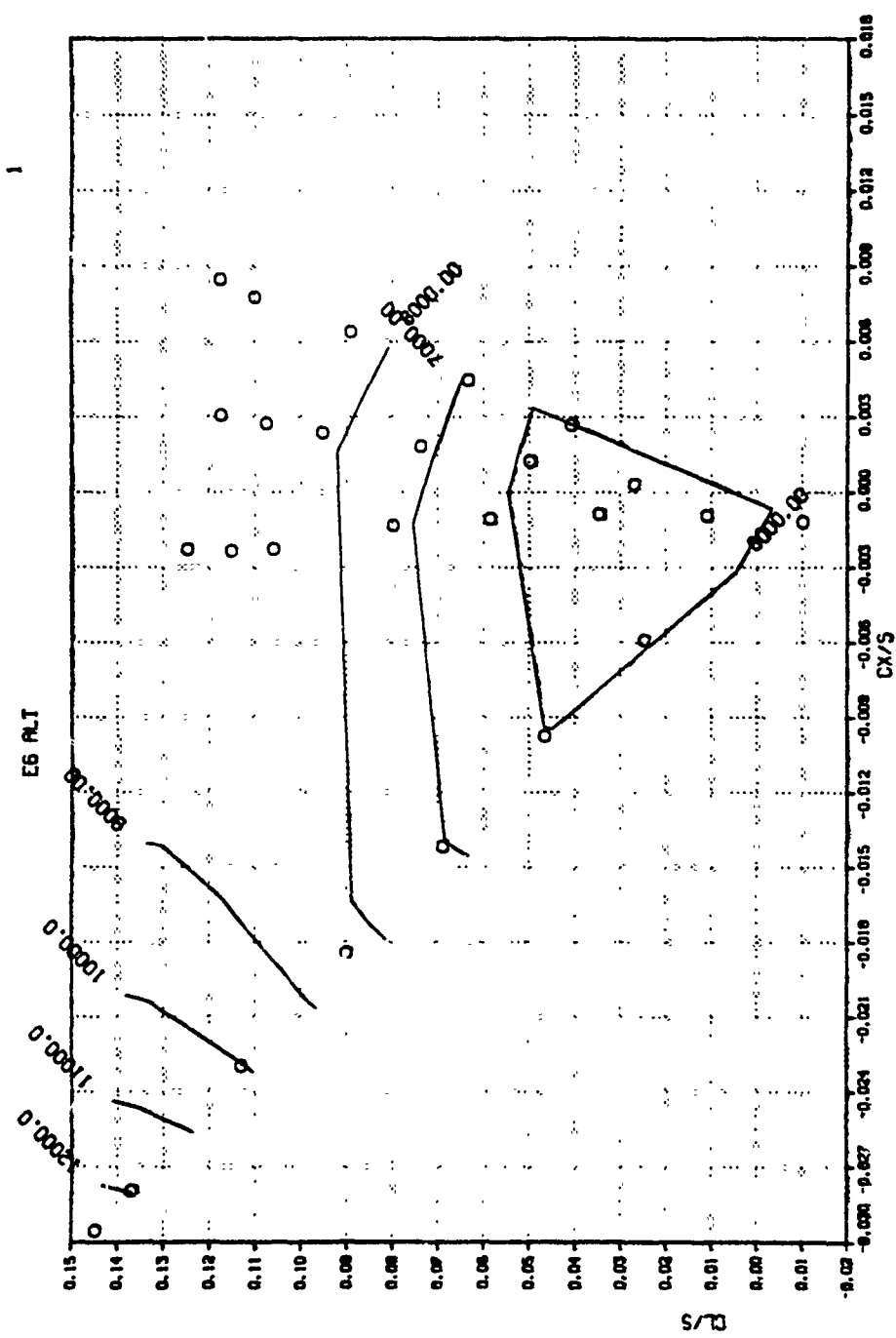


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02 05 50
1

RECTANGULAR TIP, $V/JR = .200$, $MRT = .720$
OSCILLATING EDGEWISE BENDING LOAD (1.6R)

$E_v = 8.194 \times 10^6$

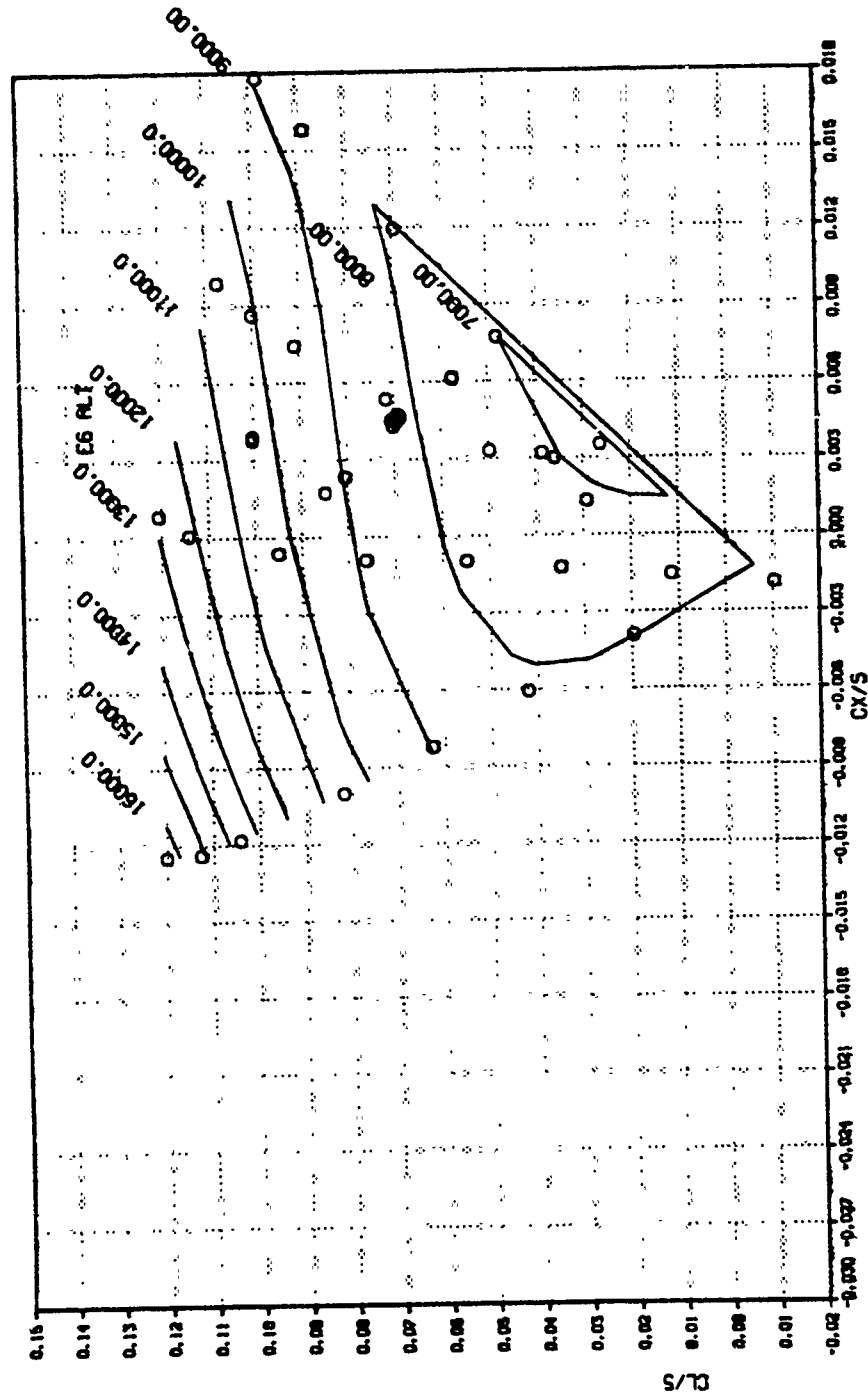
E6 ALT



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02 07 20
2

RECTANGULAR TIP, V/OR = .300, MAT = .760
OSCILLATING EDGEWISE BENDING LOAD (1.6R)

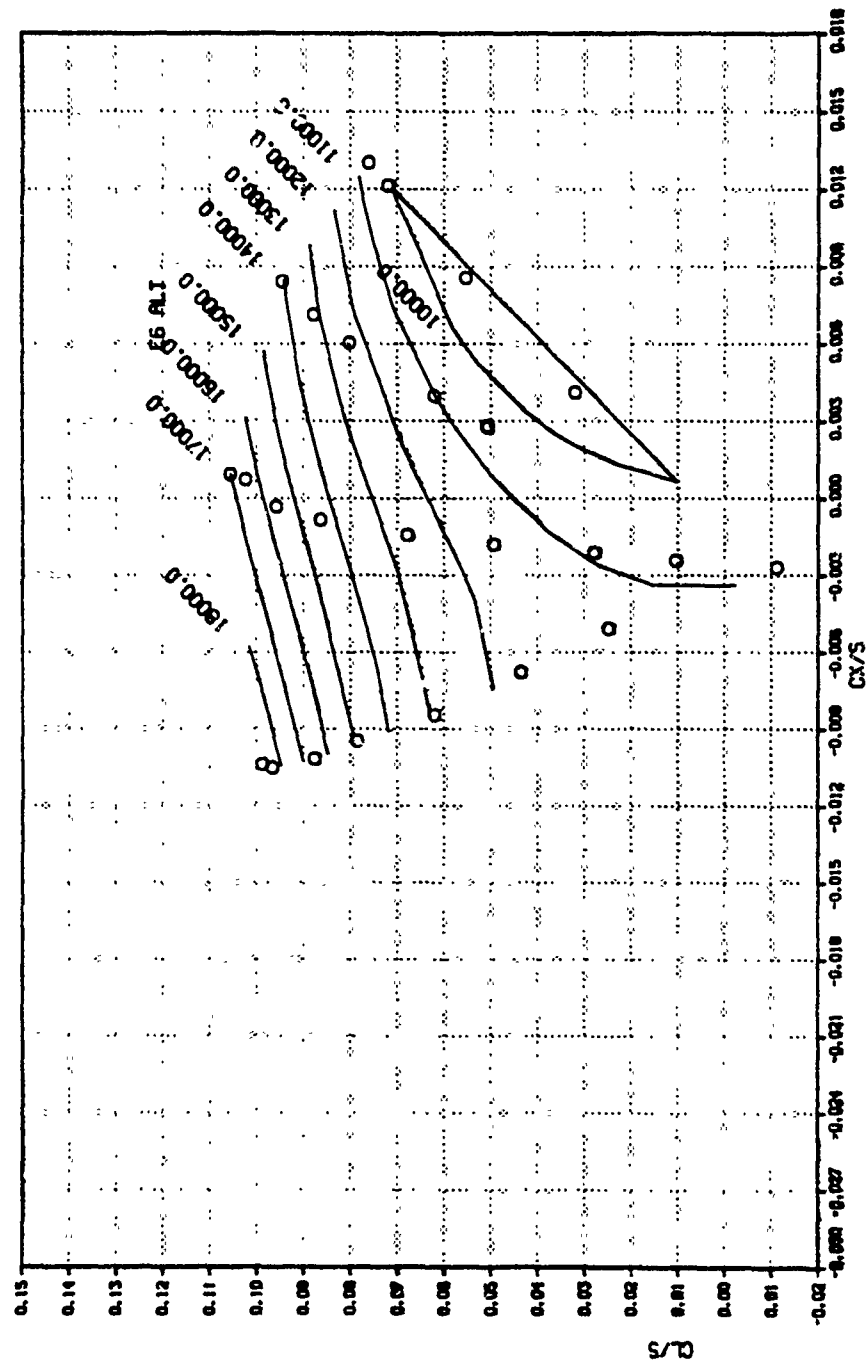
EV - 5.538E10



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02 08 55
3

RECTANGULAR TIP, V/DK = .375, MAT = .825
OSCILLATING EDGEWISE BONDING LOAD (1.6R)

EV = 9.079=10'



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16 Abstract <p>A full-scale helicopter rotor was tested in the Ames 40- by 80-Foot Wind Tunnel to measure the performance, loads, and noise characteristics of rotors with various tip geometries. Four blade tip planforms were investigated: rectangular, tapered, swept, and swept/tapered. This report presents in tables and plots the performance and loads data obtained from that test.</p>					
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